

# 2020 GREEN INFRASTRUCTURE IMPROVEMENT PROJECT

## Project Partners:



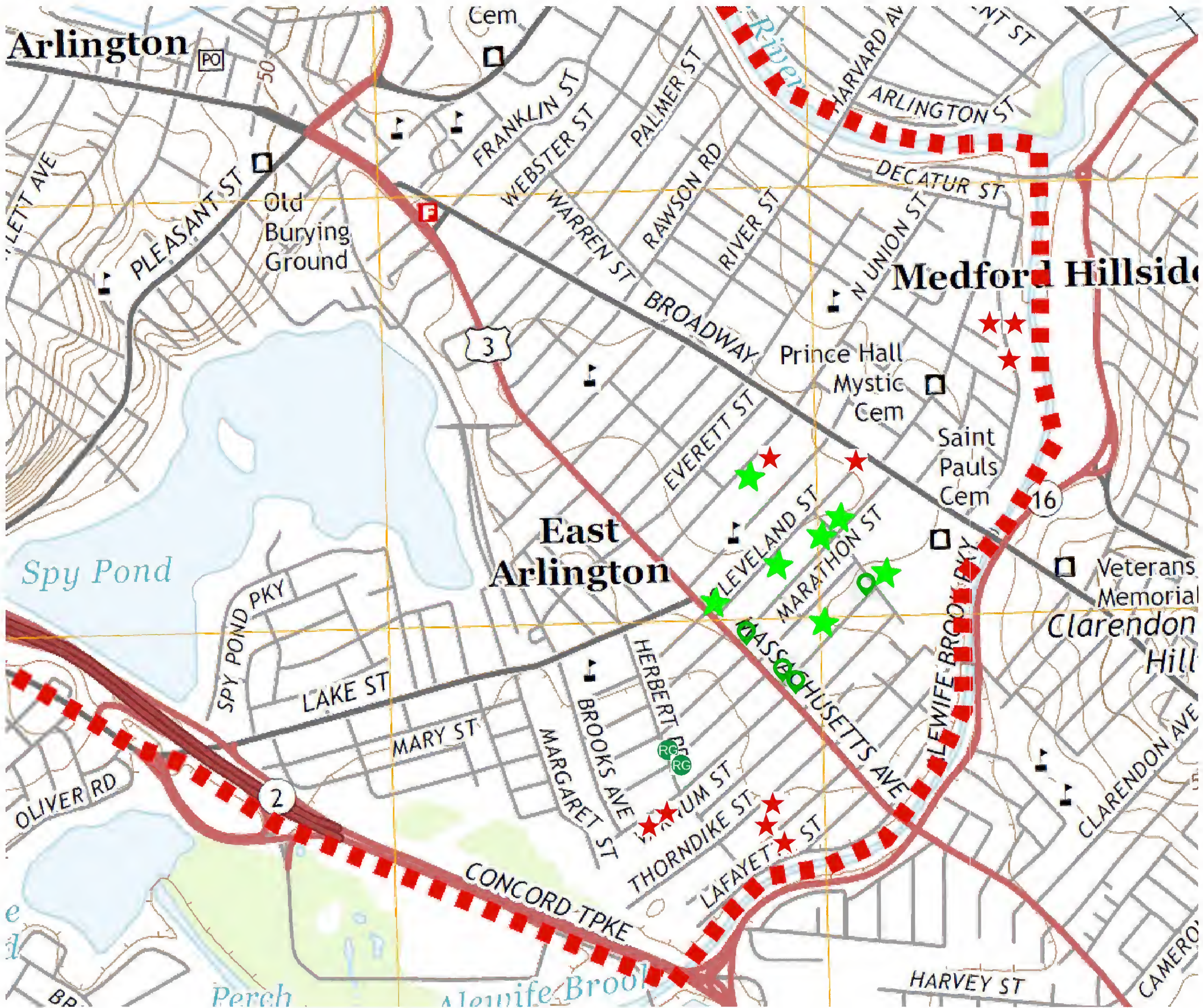
TOWN OF ARLINGTON  
Department of Public Works  
51 Grove St.  
Arlington, MA 02476



Massachusetts Office of Coastal Zone Management  
251 Causeway Street, Ste. 800  
Boston, MA 02114



Mystic River Watershed Association  
20 Academy St., Ste. 306  
Arlington, MA 02476



INDEX	SHEET NO.
Cover Sheet	1
Rain Garden Details	2 - 5
BMP #1 - #6	6
BMP #7 - #12	7
BMP #13 - 18	8
BMP #19 - #21	9
Trench Details	10 - 11

### Project BMP Information:

#### ★ Street Infiltration Trench; Quantity = 10

- Location**  
89 Oxford St.  
68 Broadway (at Cleveland St.)  
88 Sunnyside Ave.  
106 Sunnyside Ave.  
109 Sunnyside Ave.  
44 - 46 Fairmont St.  
45 Fairmont St.  
54 Thorndike St.  
100 Varnum St.  
114 - 116 Varnum St.

#### ★ Green Trench: Quantity = 7

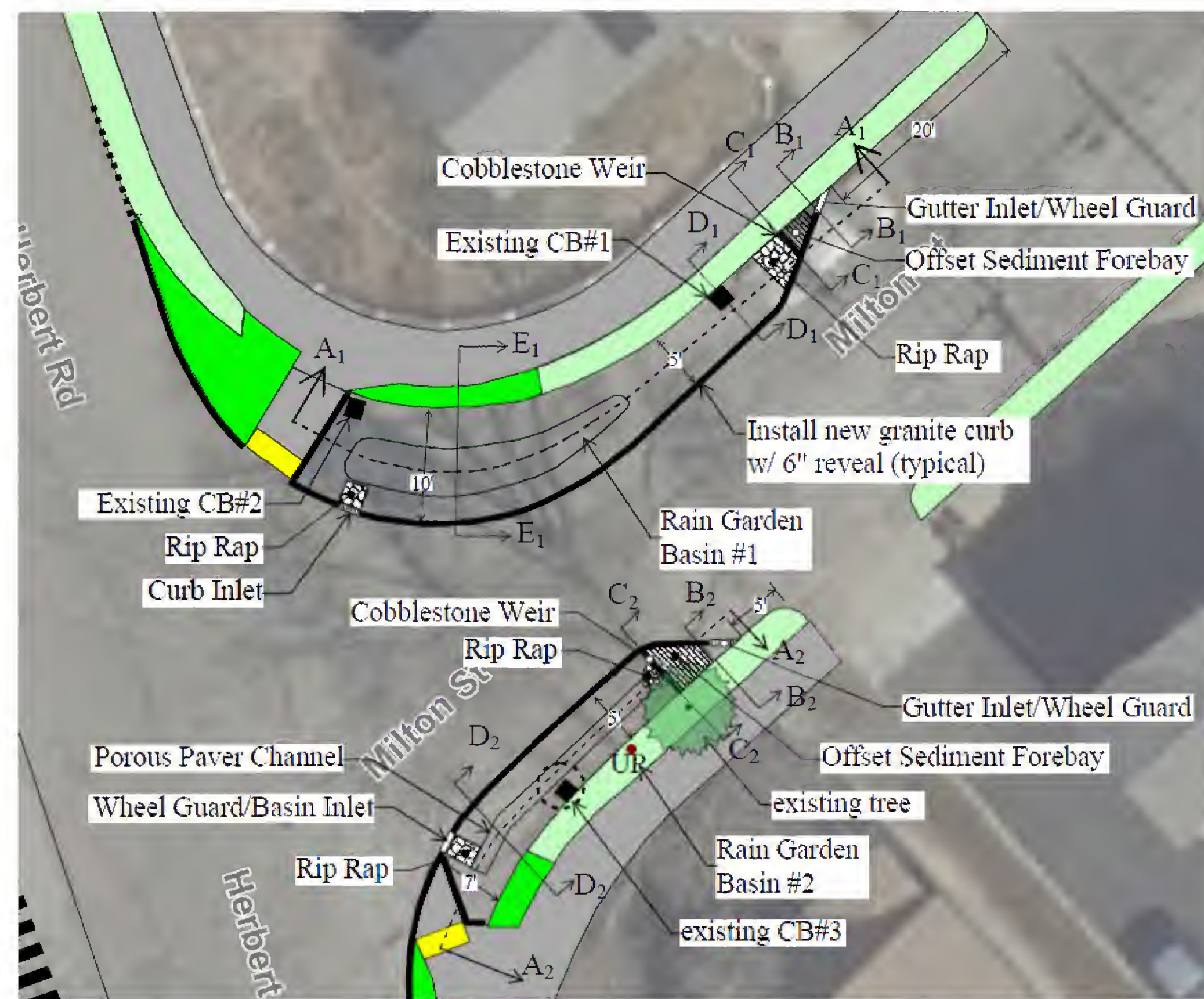
- opposite 58-60 Oxford St.  
12 Cleveland St.  
35 Cleveland St.  
54 Marathon St. (at Waldo)  
62 Marathon St. (at Waldo)  
40 Waldo Rd.  
39 Trowbridge St.

#### 📍 Tree Trench: Quantity = 4

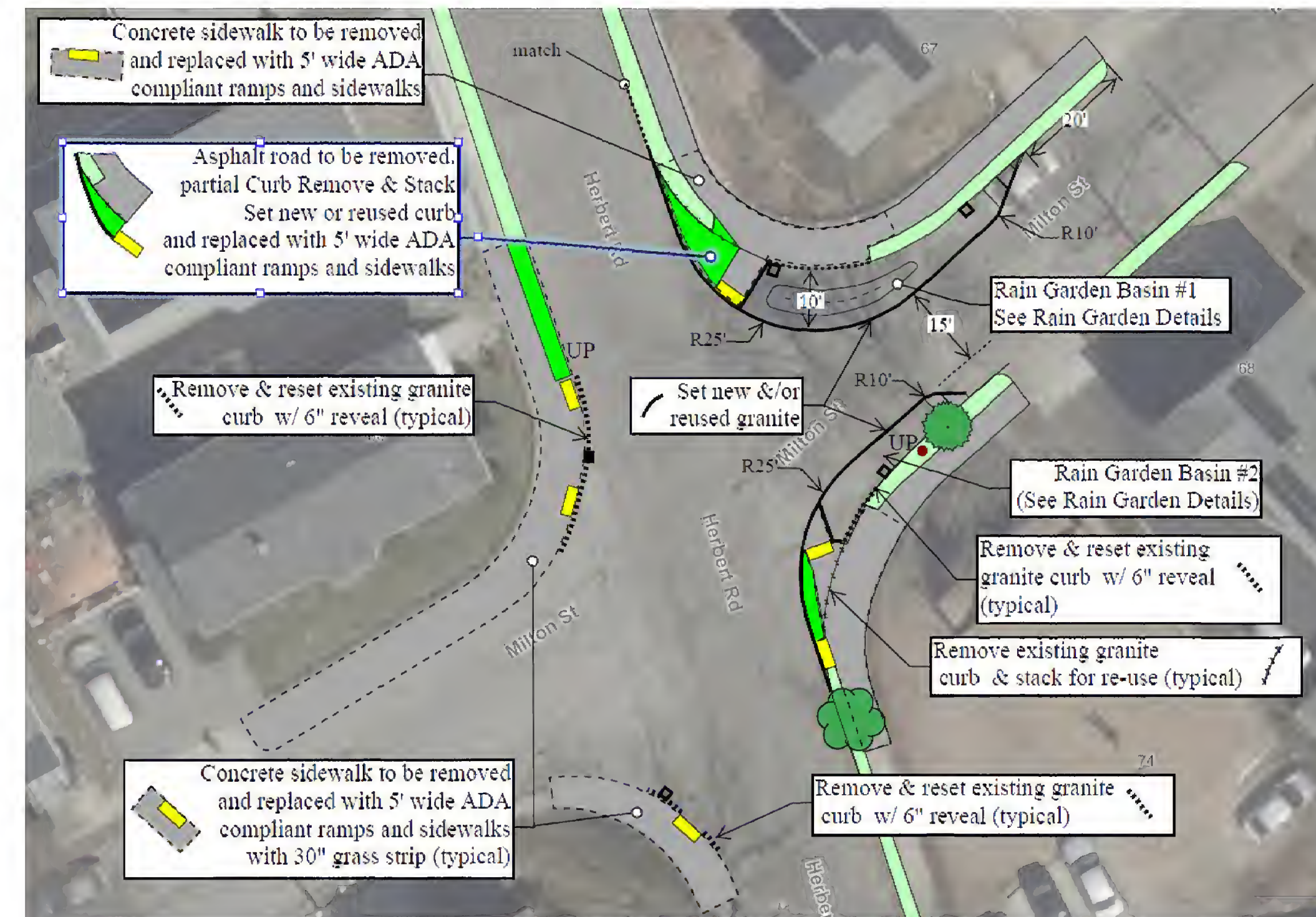
- opposite 36 Waldo Rd.  
155 Mass Ave. (at Windsor St.)  
115 Mass Ave. (at Windsor St.)  
121 Mass Ave. (at Marathon St.)

#### 🌿 Rain Garden; Quantity = 2

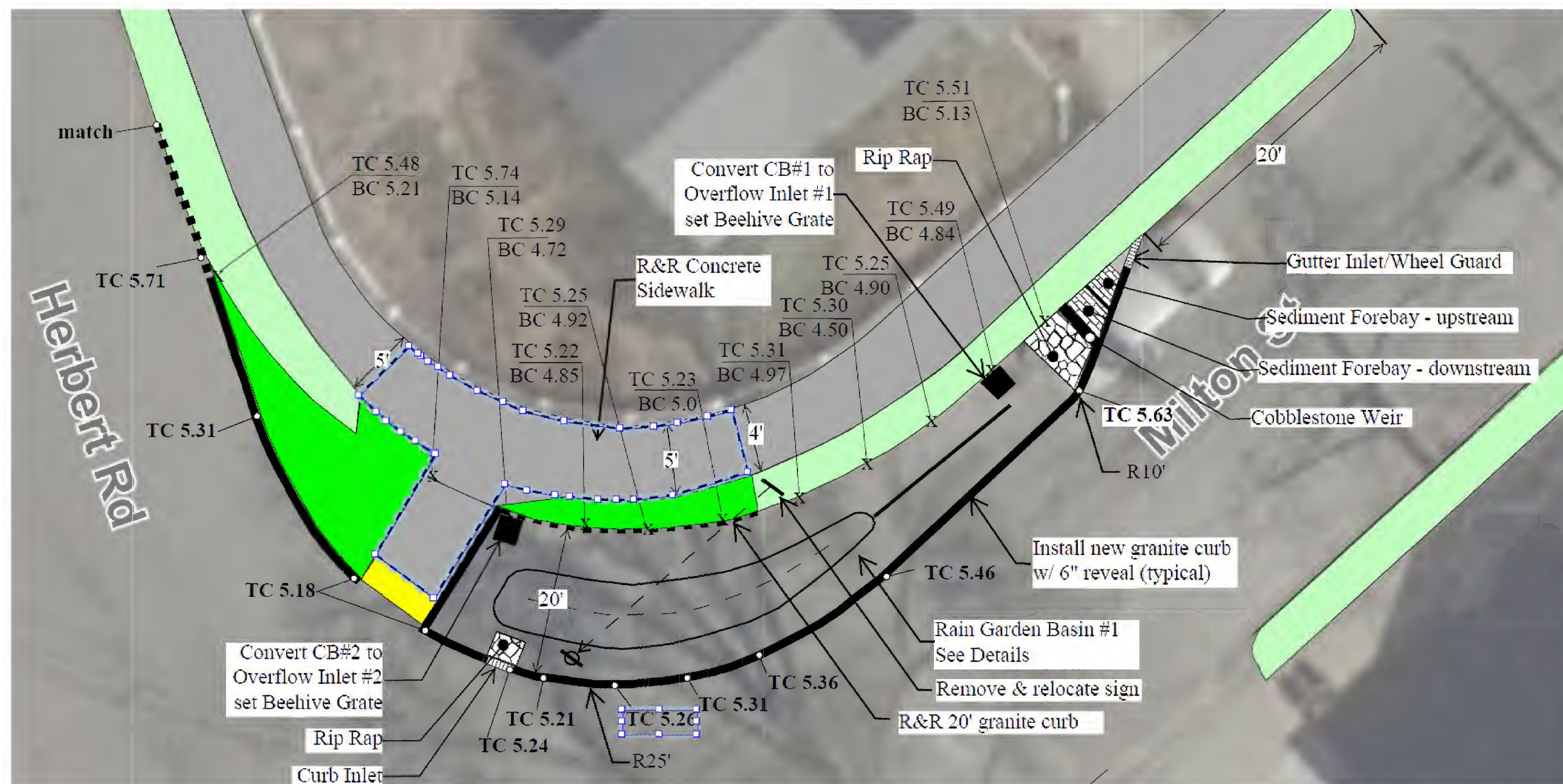
- Intersection of Milton St. & Herbert Rd.



**Rain Garden Basin #1 & #2**  
Cross Section Guide  
scale: 1" = 10ft



**MILTON - HERBERT INTERSECTION**  
Proposed Curb & Walk Modifications  
Scale: 1" = 20ft



**RAIN GARDEN BASIN #1 SCHEMATIC**  
Scale: 1" = 5ft



**MILTON - HERBERT INTERSECTION**  
Existing Curb & Walk Conditions  
scale: 1" = 20ft

# NOTES

No.	Revision/Issue	Date

Town of  
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Engineering Division  
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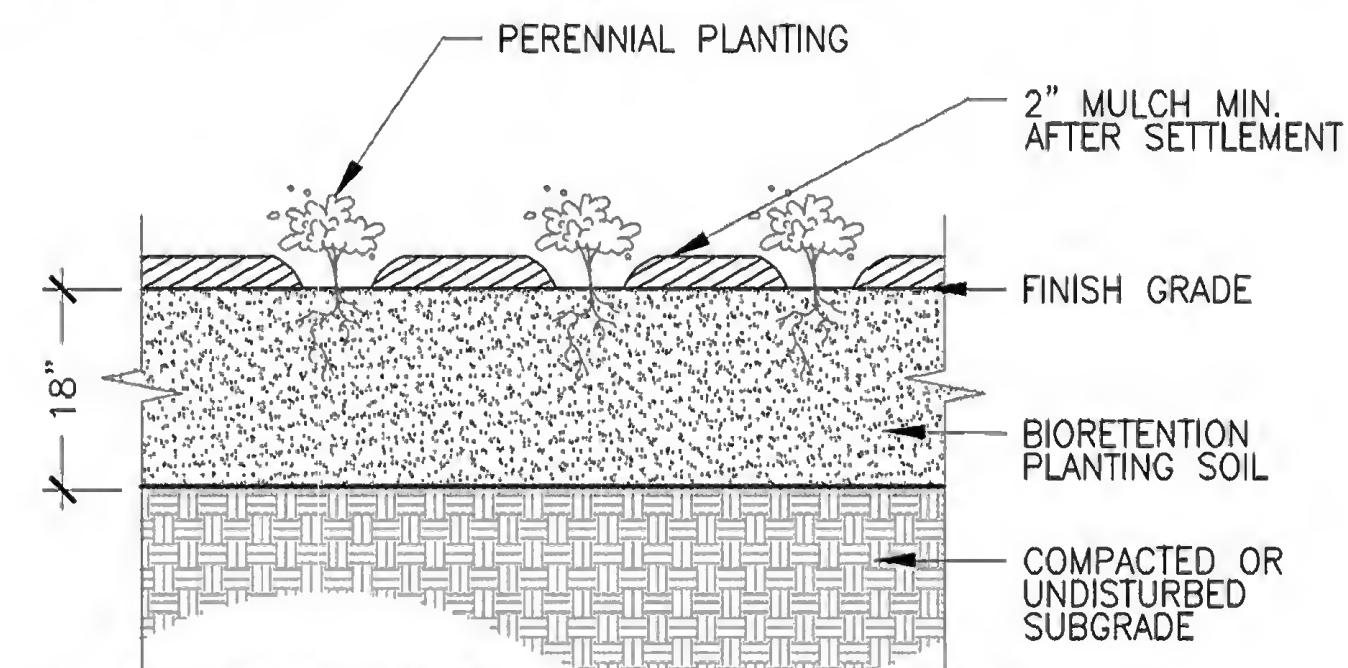
**2020 GREEN  
INFRASTRUCTURE  
IMPROVEMENT PROJECT**

## RAIN GARDEN DETAILS

Project:	#20-09	Sheet:	
Drawn By:	WAC		
Scale:	AS NOTED		
Date:	FEBRUARY 2020		

- 1) Steel Edging shall be type: 5" x 2.5mm Heavy Duty Cor-Ten "EverEdge" Steel Edging (or equal). Installation shall conform to manufacturer instructions.
- 2) Porous paver system shall be open-cell paver, brick-gap or other type and shall be approved by Engineer prior to construction. Sediment forebays shall be installed level.
- 3) Rip Rap shall comply with current version of MassDOT standard specifications M2.02.4.
- 4) Crushed stone shall comply with current version of MassDOT standard specifications; M2.01.4.
- 5) Geotextile Fabric shall adhere to current version of MassDOT standard specifications; M9.50.0.
- 6) Rain Garden construction shall comply with material and construction specifications for Bioretention Area from MassDEP Massachusetts Stormwater Handbook.

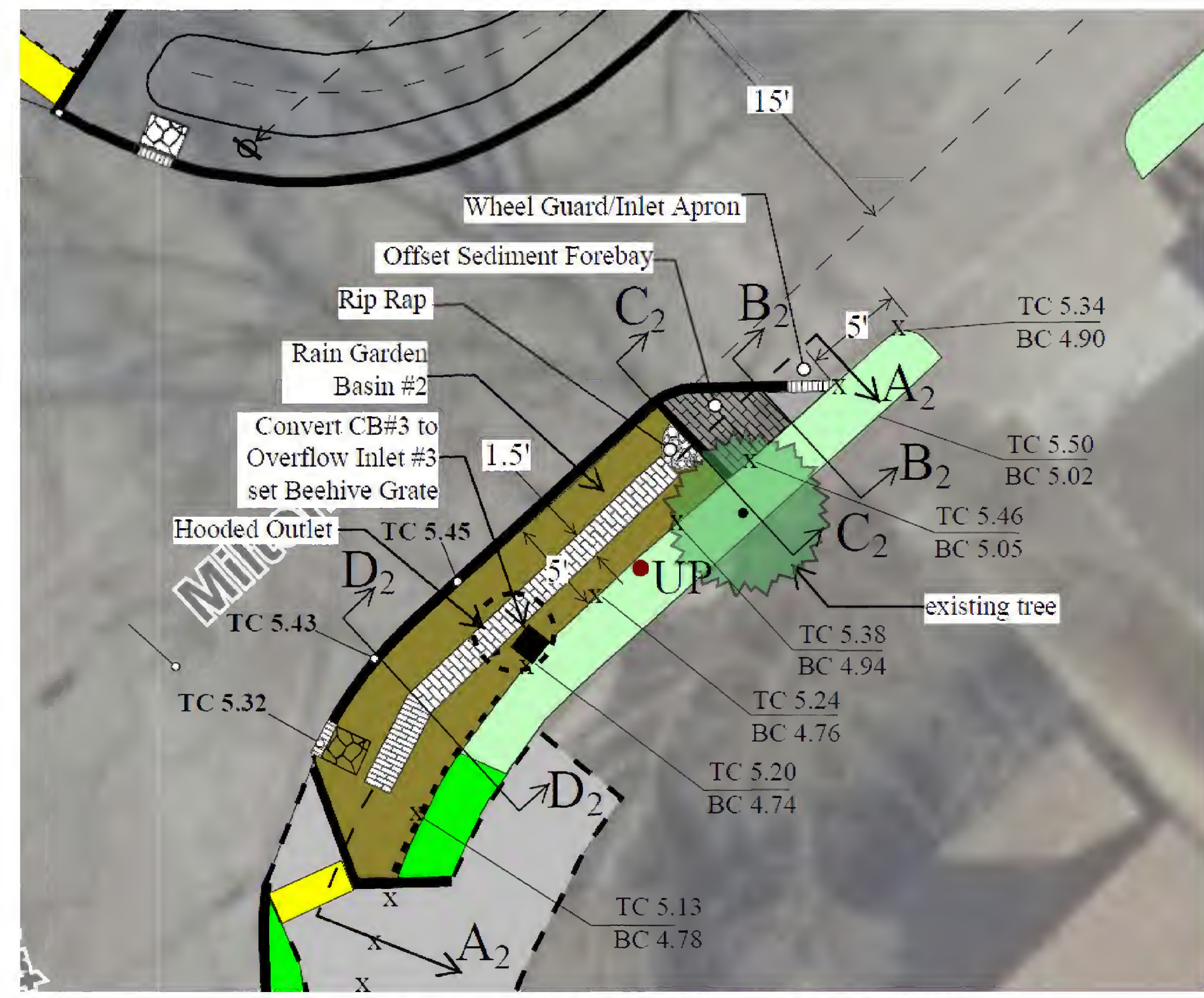
1. NO PLANTING MATERIALS SHALL BE INSTALLED PRIOR TO ACCEPTANCE OF GRADING BY THE OWNER'S REPRESENTATIVE.
2. ALL DISTURBED AREAS SHALL RECEIVE THE FOLLOWING TREATMENT: SCARIFY SUBSOIL WITH RAKE, APPLY TOPSOIL AND ROLL WITH WATER FILLED LAWN ROLLER TO DEPTH OF THREE (3") AFTER COMPACTION, RAKE/SCARIFY SURFACE OF TOPSOIL, APPLY OWNER APPROVED TURF SEED MIX BY HAND OR USING BRILL-TYPE SEEDER (2 APPLICATIONS 90 DEGREES FROM ONE ANOTHER), COMPACT SURFACE WITH LAWN ROLLER.
3. ALL PLANTS SHALL BE STRAIGHT SPECIES, NO CULTIVARS SHALL BE USED, UNLESS OTHERWISE NOTED.
4. ALL PLANT MATERIAL SHALL CONFORM TO THE MINIMUM GUIDELINES ESTABLISHED FOR NURSERY STOCK PUBLISHED BY THE AMERICAN SOCIETY OF NURSERYMEN, INC. IN ADDITION, ALL NEW PLANT MATERIAL FOR THE PROJECT SHALL BE OF SPECIMEN QUALITY.
5. THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING PLAN SHOWN.
6. ANY PROPOSED SUBSTITUTION OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE AND ONLY AFTER WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED, STOLEN, DEAD, DECLINING OR LOST MATERIAL UNTIL COMPLETION OF THE (1) YEAR MAINTENANCE AND GUARANTEE PERIOD.



RAIN GARDEN DETAIL AND NOTES

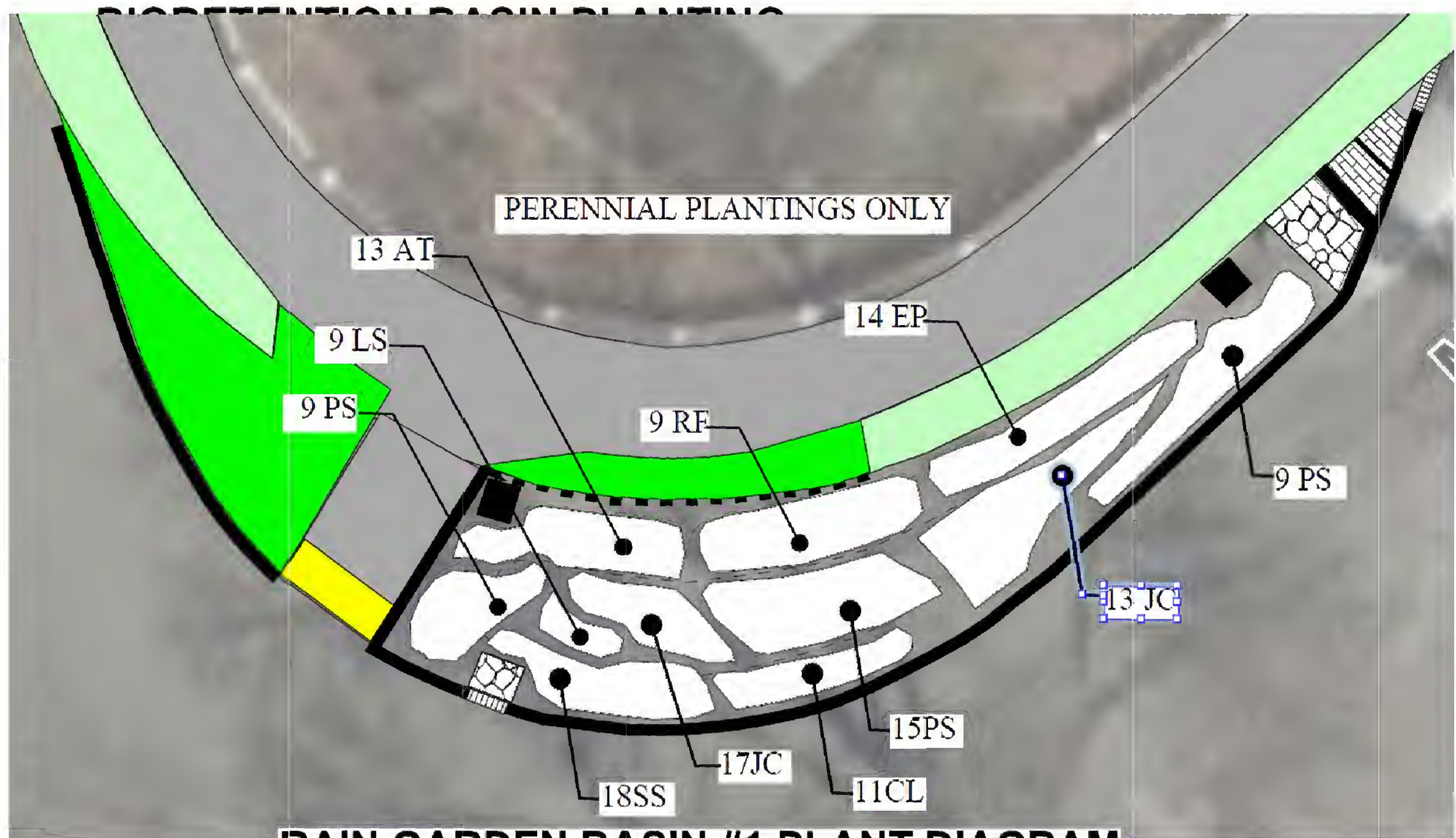
Bioretention Area Material Specifications		
Material	Specification	Notes
Filter Media Soil	Filter Media to contain: <ul style="list-style-type: none"><li>• 40% Sand</li><li>• 20-30% topsoil (&lt;5% clay)</li><li>• 30-40% compost</li></ul> Organic content is to be 1.5% to 3%. Volume of material is to be 110% of plan volume to account for settling or compaction.	Sand should be gravelly sand using ASTM D422.  Topsoil shall be a USDA soil type sandy loam, loamy sand or loam texture.  Compost must be processed from yard waste per MassDEP Guidelines.
Mulch Layer	Fine shredded hardwood mulch. Well-aged (6 months minimum).	2-inch layer on the surface of the filter media soil, mixed 1 inches into the filter media soil.
Filter Fabric	Non-woven geotextile fabric with flow rate of > 110 gallons/minute/square foot.	For use on bottom of filter media soil.
Erosion Control Blanket	Woven, 100% biodegradable jute fiber, 7.7 lbs./1000 sq. ft.	To be used on bioretention area side slopes > 3:1.
Plant Material	All plant materials shall conform to the guidelines of the "American Standard for Nursery Stock", latest edition.	Plant species and quantities per the plans.
Grass Seed	Use seed mix from Item 765.6 for side slopes.	Application rate of 25 lbs./acre or per seed manufacture's requirements.

RAIN GARDEN SPECIFICATIONS



RAIN GARDEN BASIN #2 SCHEMATIC

Scale 1" = 5 ft

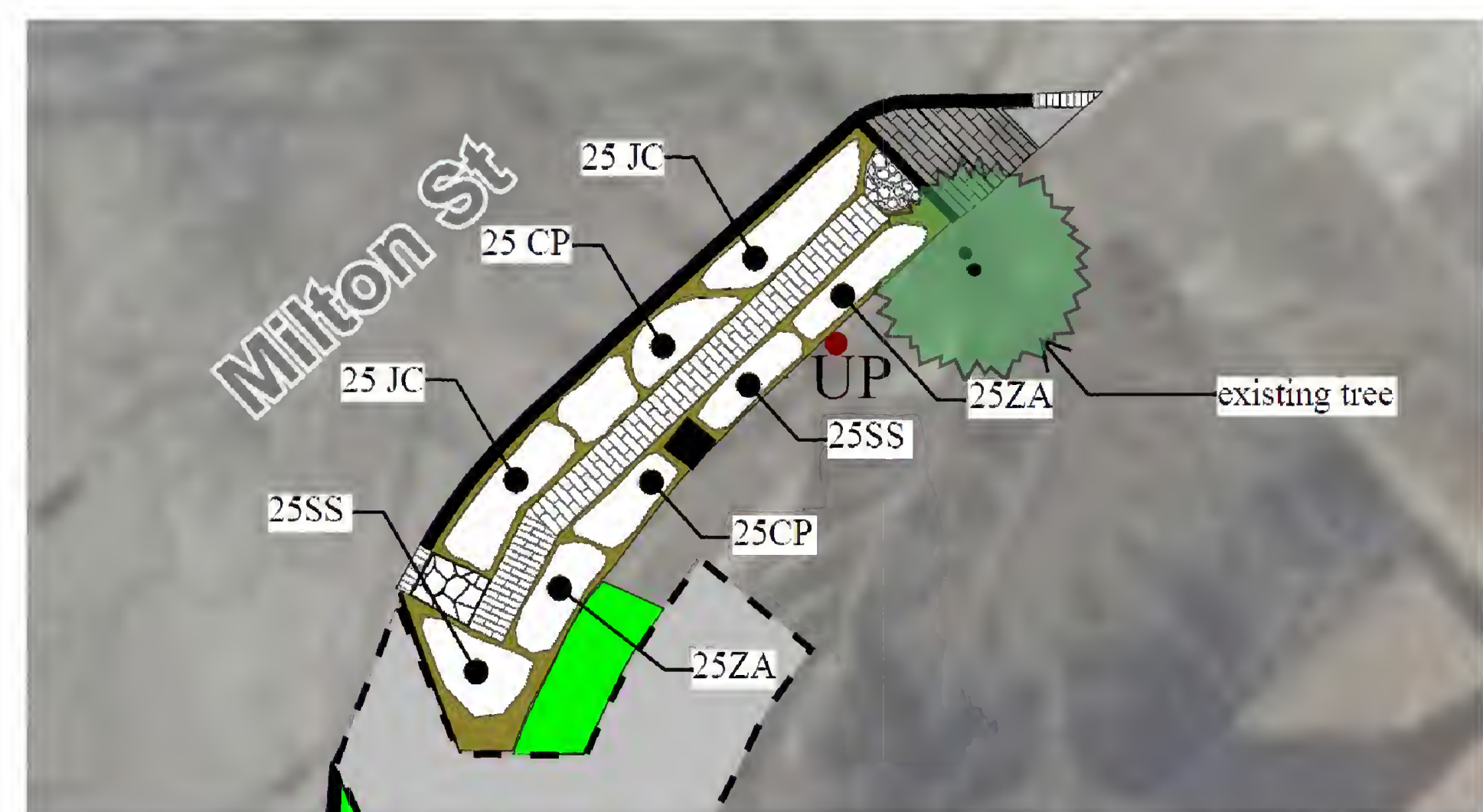


RAIN GARDEN BASIN #1 PLANT DIAGRAM

Not to Scale

PLANT SCHEDULE					
QTY	SYM	SCIENTIFIC NAME	COMMON NAME	CONTAINER	COMMENTS
22	AT	Asclepias tuberosa	Butterfly Weed	Quart	12" O.C.
24	CL	Chasmanthium latifolia	Northern Sea Oats	#1 cont.	15" O.C.
22	EP	Echinacea purpurea	Purple Cone Flower	Quart	12" O.C.
50	JC	Juncus canadensis	Canada Rush	Quart	12" O.C.
9	LS	Liatris spicata	Gayfeather	Quart	12" O.C.
62	PS	Panicum virgatum	Switchgrass	#2 cont.	15" O.C.
16	RF	Rudbeckia fulgida	Black Eyed Susan	#1 cont.	15" O.C.
36	SS	Schizachyrium scoparium	Little Bluestem	Quart	12" O.C.

RAIN GARDEN #1 PLANT LIST



RAIN GARDEN BASIN #2 PLANT DIAGRAM

Not to Scale

PLANT SCHEDULE					
QTY	SYM	SCIENTIFIC NAME	COMMON NAME	CONTAINER	COMMENTS
50	SS	Schizachyrium scoparium	Little Bluestem	Quart	12" O.C.
50	JC	Juncus canadensis	Canadian Rush	Quart	12" O.C.
50	CP	Carex pensylvanica	Pennsylvania Sedge	Quart	12" O.C.
50	GA	Zizia aurea	Golden Alexanders	Quart	12" O.C.

RAIN GARDEN #2 PLANT LIST

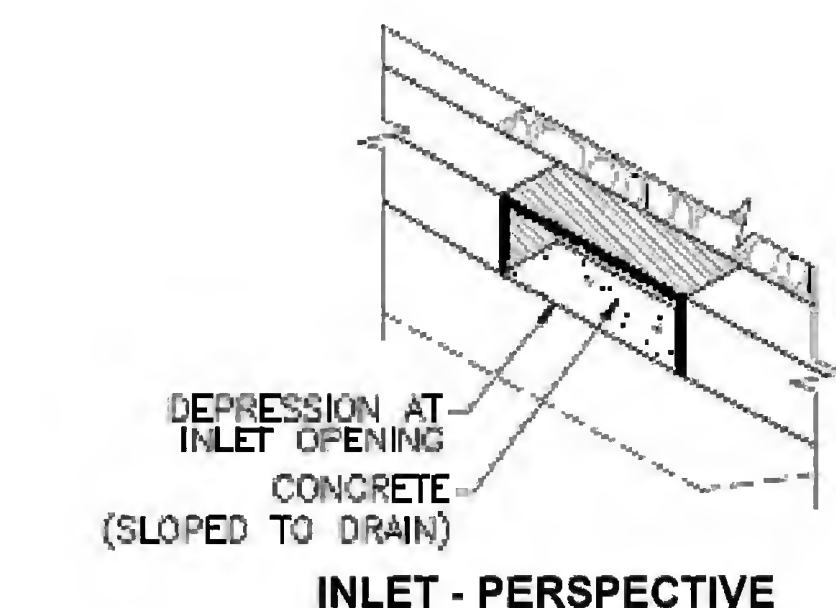
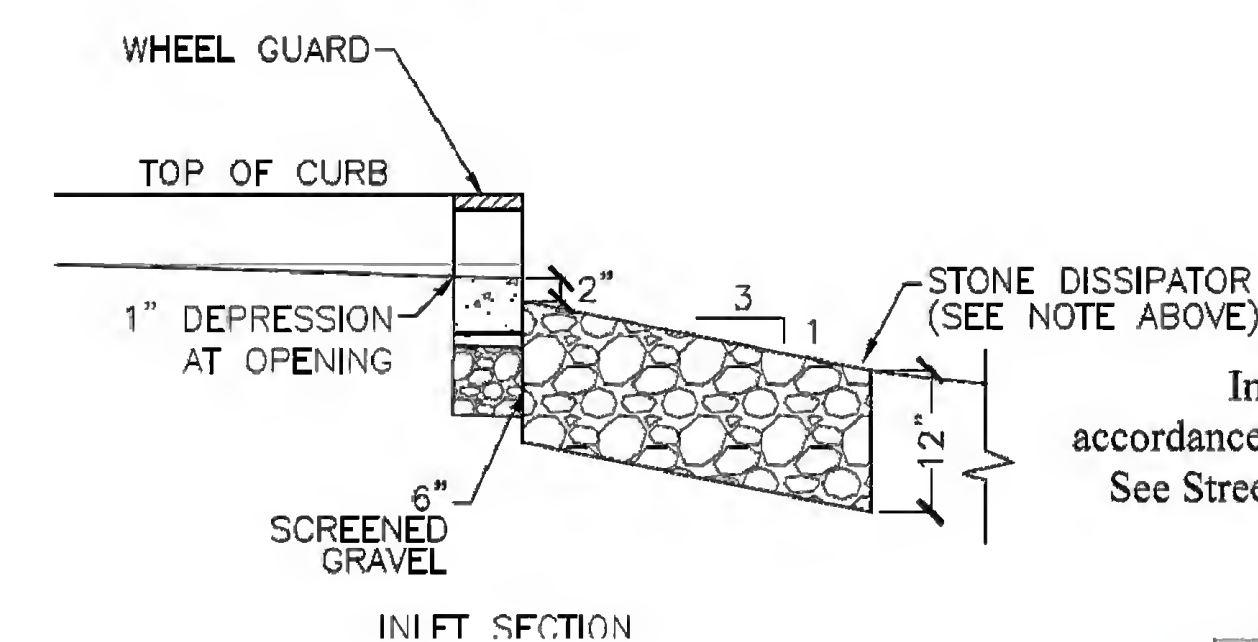
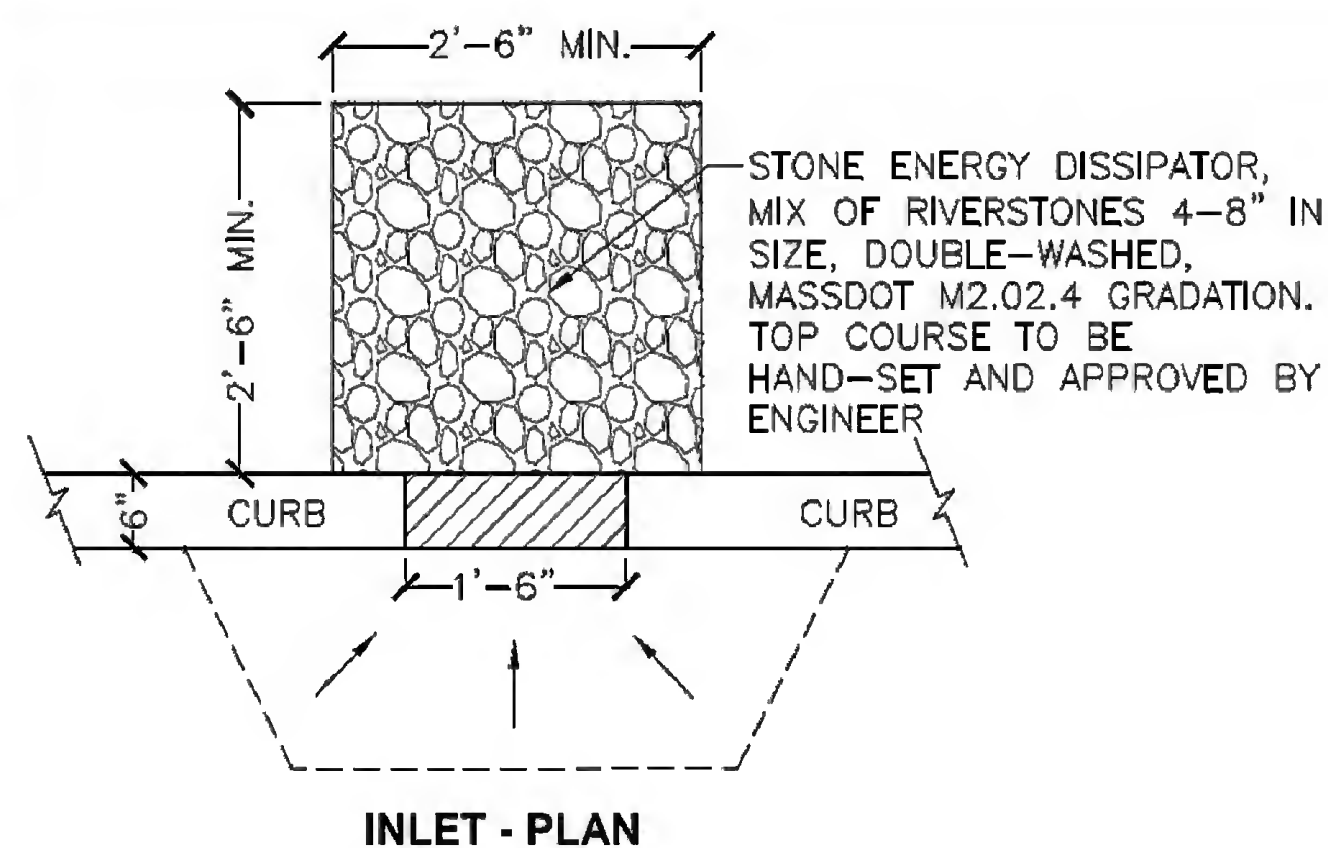
NOTES

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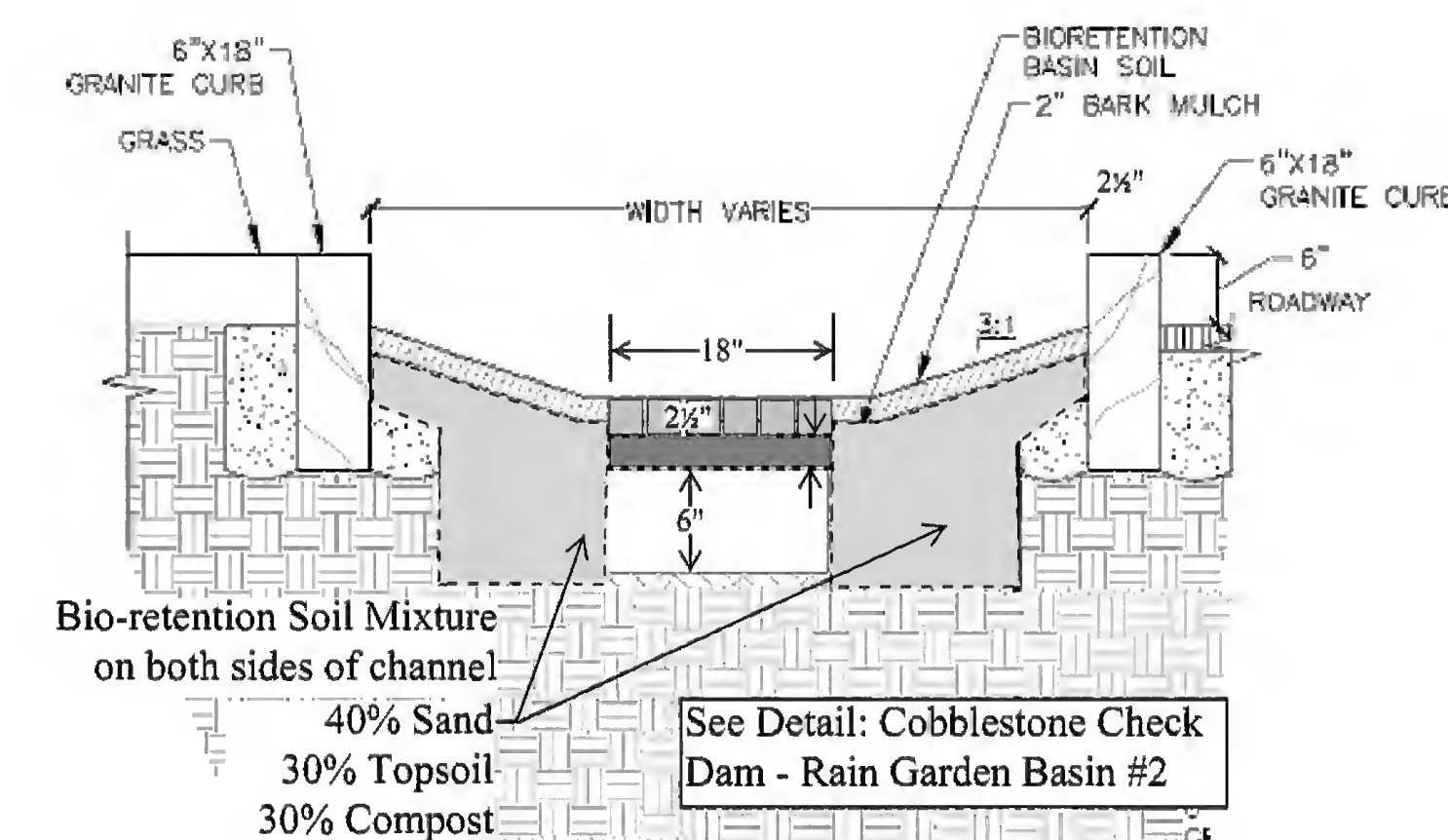
2020 GREEN  
INFRASTRUCTURE  
IMPROVEMENT PROJECT

RAIN GARDEN DETAILS

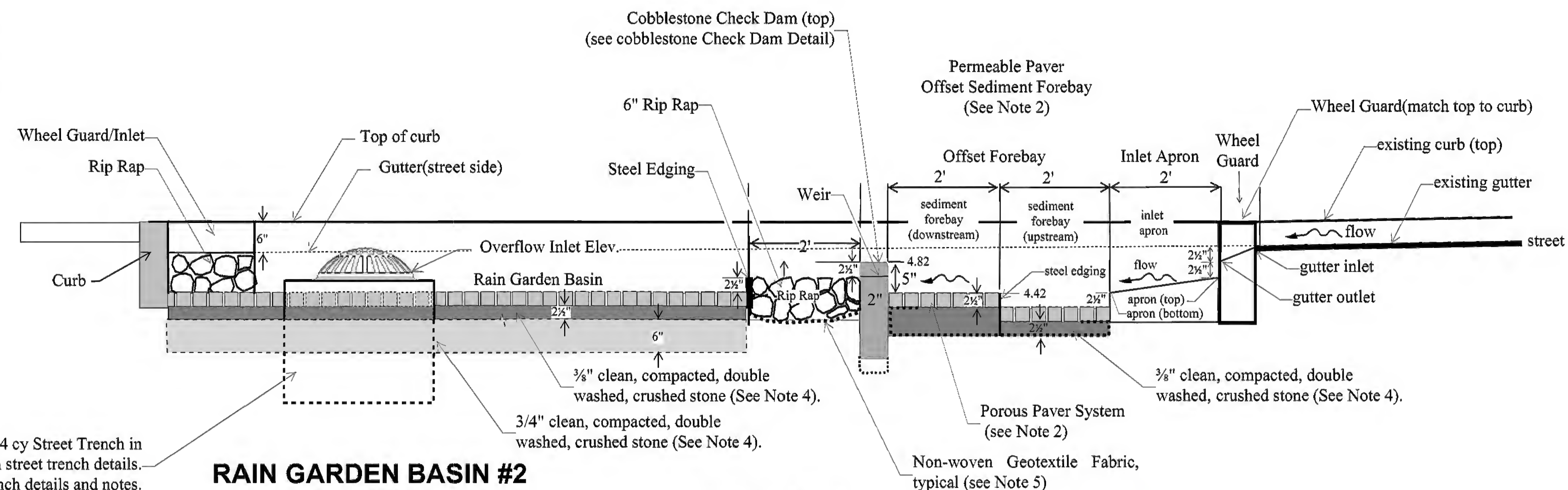
Project:	#20-09	Sheet:	4 of 11
Drawn By:	WAC		
Scale:	AS NOTED		
Date:	FEBRUARY 2020		



**CURB INLET w/ RIP RAP**  
Not to Scale



**RAIN GARDEN BASIN #2**  
**Cross-section**  
Section D<sub>2</sub> - D<sub>2</sub>  
Not to Scale



**RAIN GARDEN BASIN #2**  
**PROFILE**  
Not to Scale  
Section A<sub>2</sub> - A<sub>2</sub>

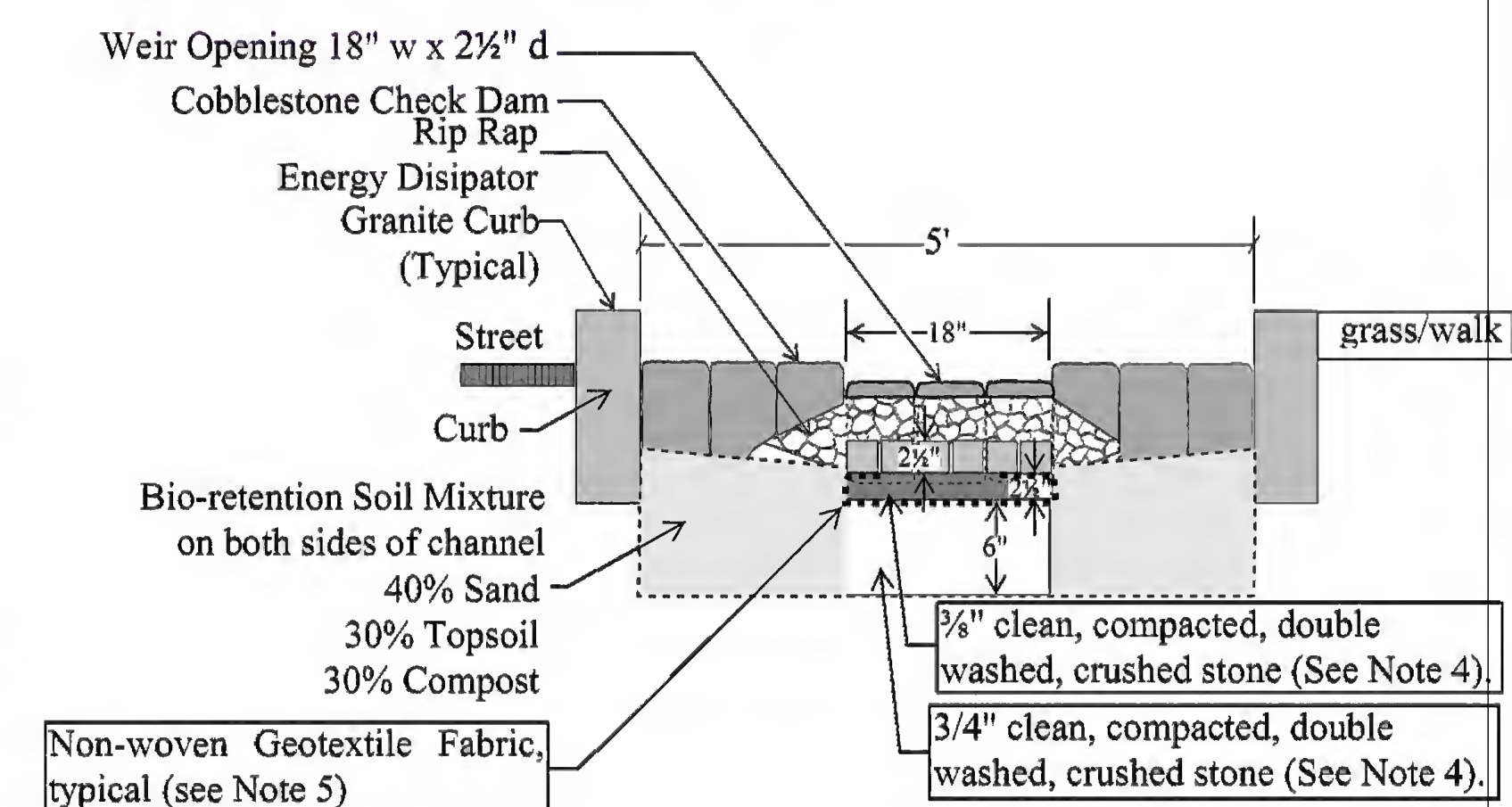
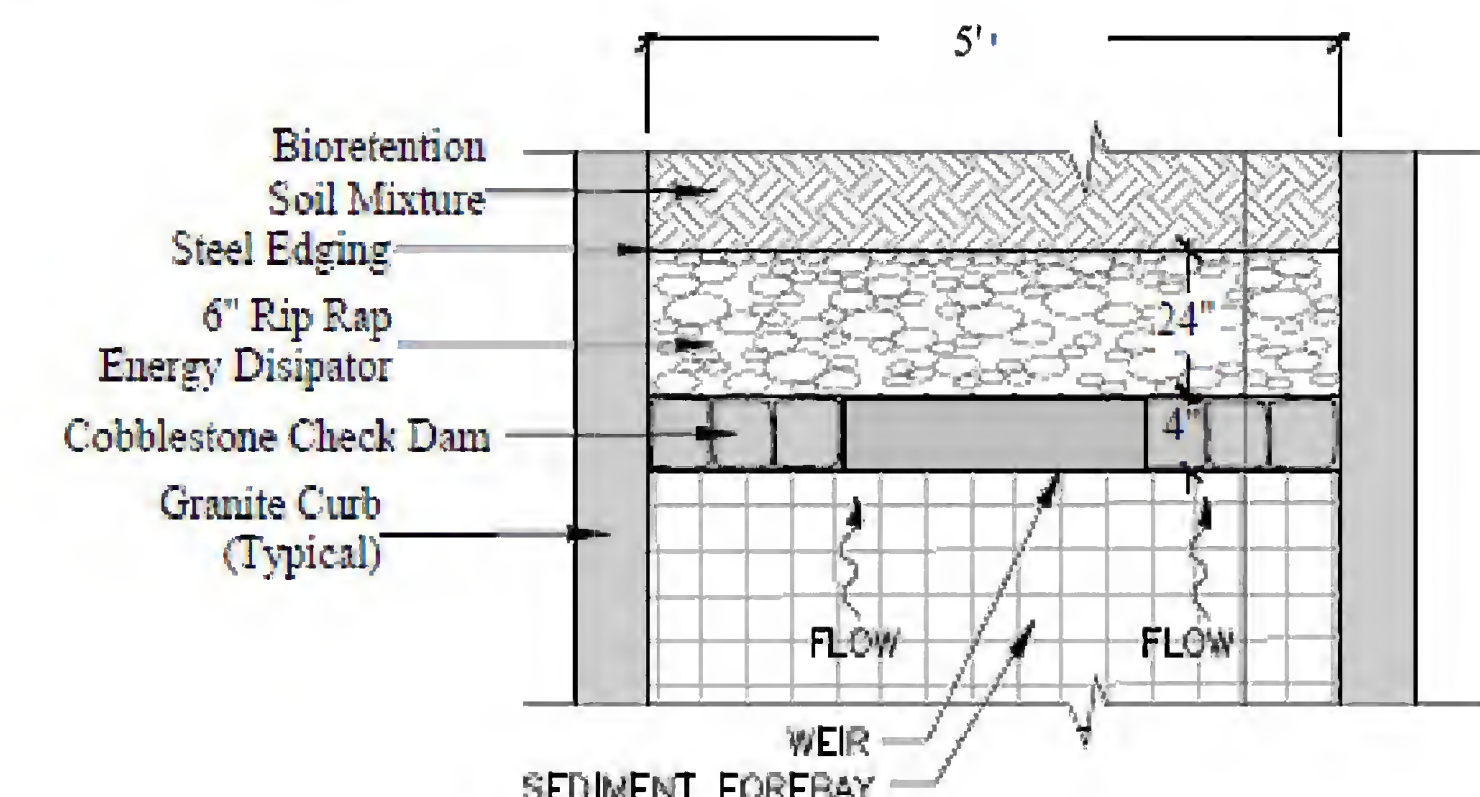
**Design Elevations:**

Gutter Inlet =	5.02
Gutter Outlet =	4.82
Inlet Apron (top) =	4.62
Inlet Apron (bottom) =	4.42
Sediment Forebay (upstream) =	4.22
Sediment Forebay (downstream) =	4.42
Top of Check Dam =	4.82
Weir Level =	4.62
Top of Rip Rap =	4.62
Bottom of Rip Rap =	4.12
Overflow Inlet - Bee Hive Grate =	4.62
Porous Paver Channel =	4.42

**RAIN GARDEN BASIN #2**  
**DESIGN TABLE**

Notes:

- 1) All granite curbing shall be set in concrete and joints filled/pointed with mortar.
- 2) All cobblestone features shall be set in mortar and surface joints pointed with hydraulic cement.
- 3) Steel Edging shall be type: 5" x 2.5mm Heavy Duty Cor-Ten "EverEdge" Steel Edging (or equal). Installation shall conform to manufacturer instructions.
- 4) Porous paver system shall be open-cell paver, brick-gap or other type and shall be approved by Engineer prior to construction. Sediment forebays shall be installed level. Non-woven geotextile fabric to be placed between 3/8" and 3/4" stone layers and overlap top of 3/8" layer by a min. 6".
- 5) Rip Rap shall comply with current version of MassDOT standard specifications M2.02.4.
- 6) Crushed stone shall comply with current version of MassDOT standard specifications; M2.01.4.
- 7) Geotextile Fabric shall adhere to current version of MassDOT standard specifications; M9.50.0.
- 8) Rain Garden construction shall comply with material and construction specifications for Bioretention Area from MassDEP Massachusetts Stormwater Handbook.
- 9) Rain Garden Basins are located within existing paved roadway. All bituminous concrete, sub-base gravel and other materials shall be excavated to suitable depth to construct as detailed.
- 10) Rain Garden shall be topped with 2" of Hardwood Mulch after plantings are complete



**COBBLESTONE CHECK DAM**  
**RAIN GARDEN BASIN #2**  
Not to Scale  
Section C<sub>2</sub> - C<sub>2</sub>

NOTES

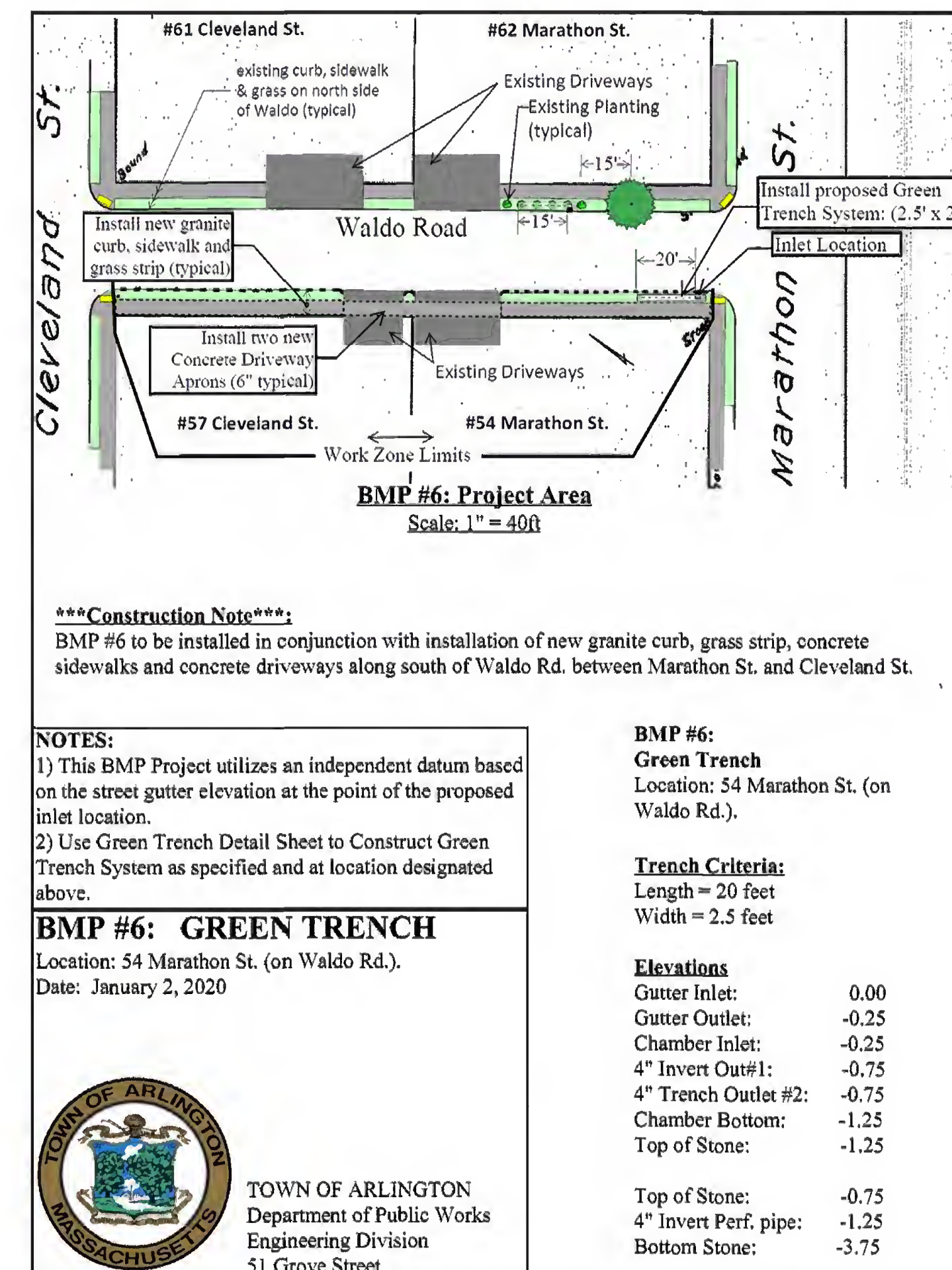
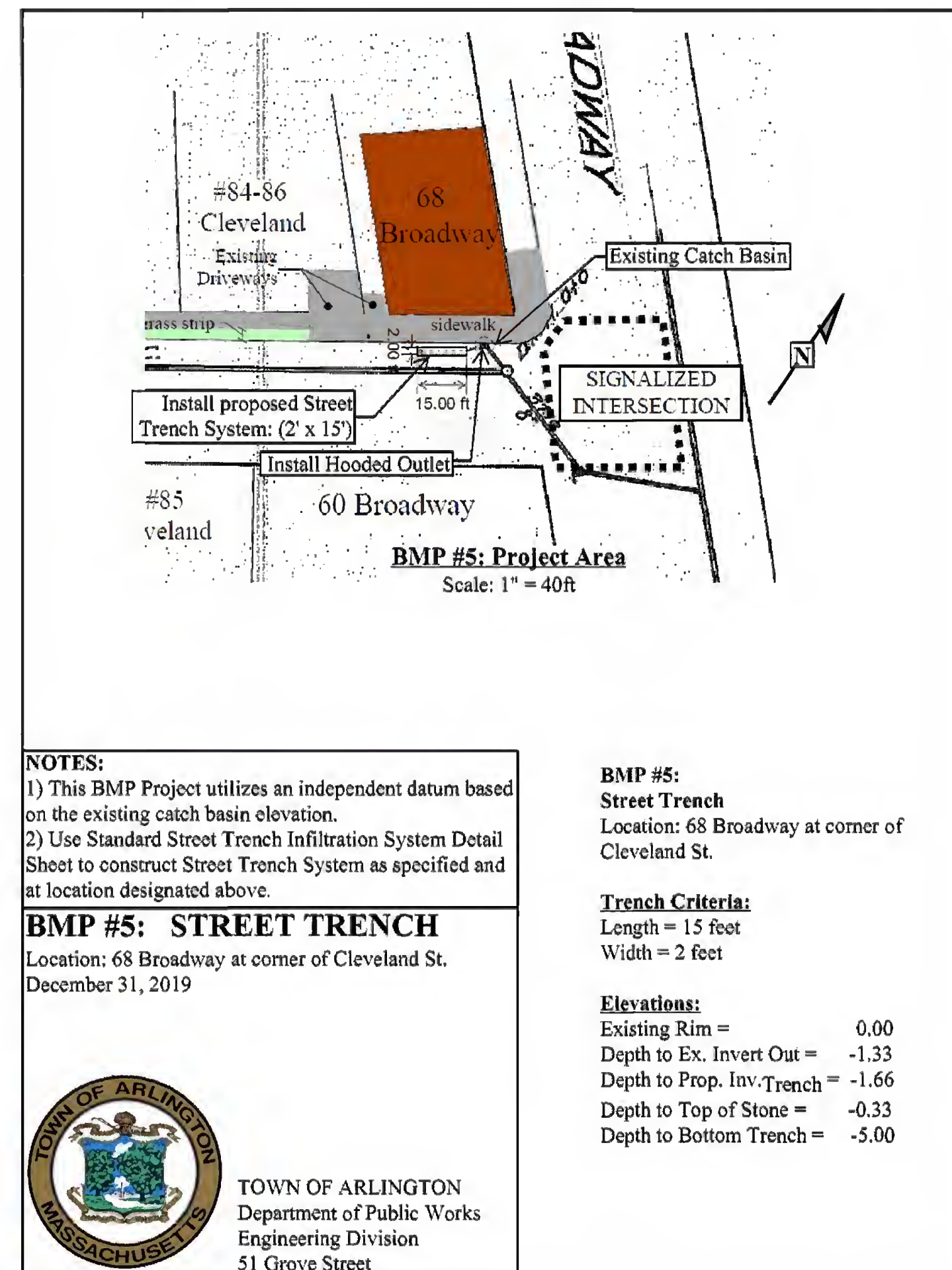
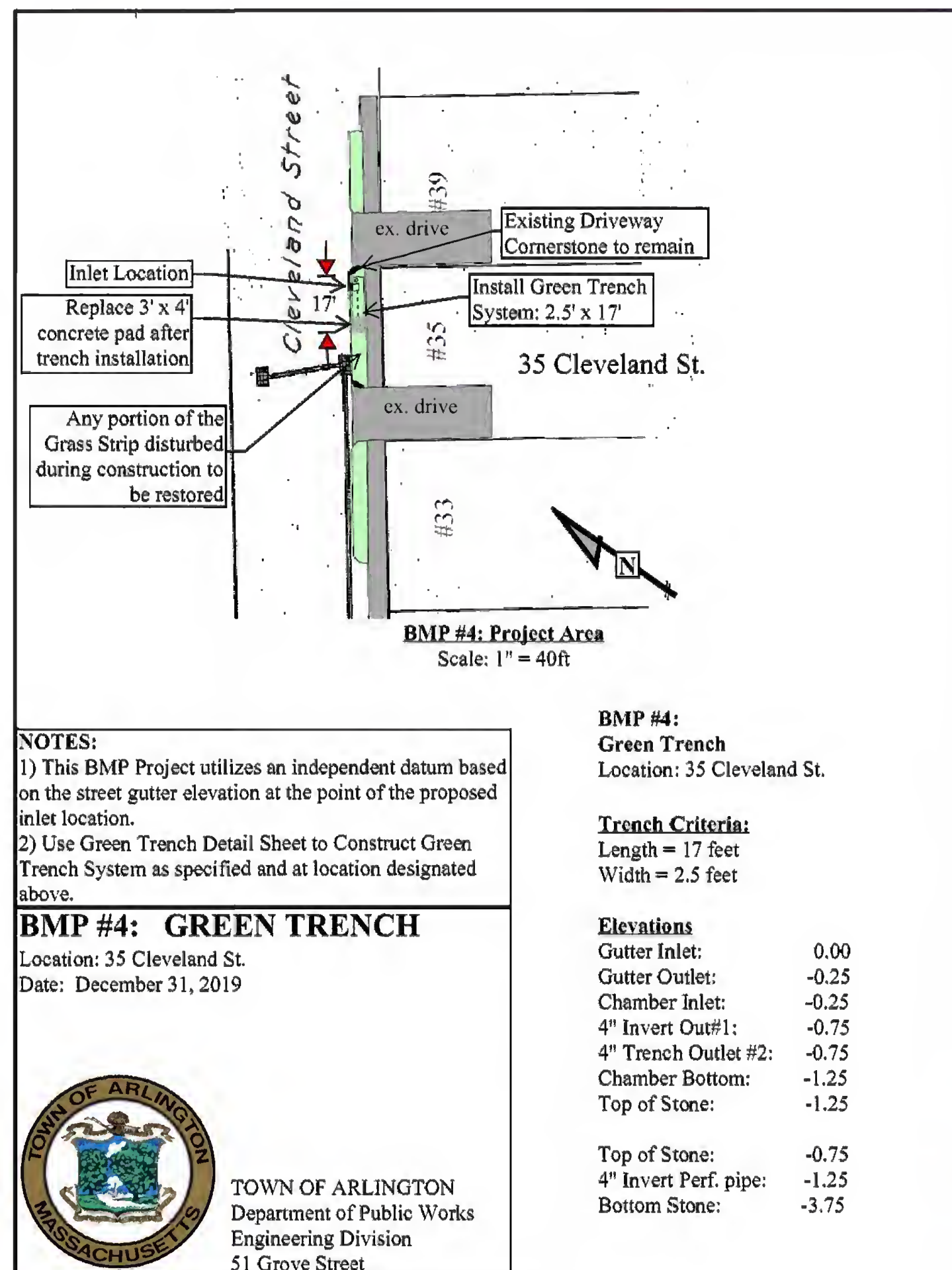
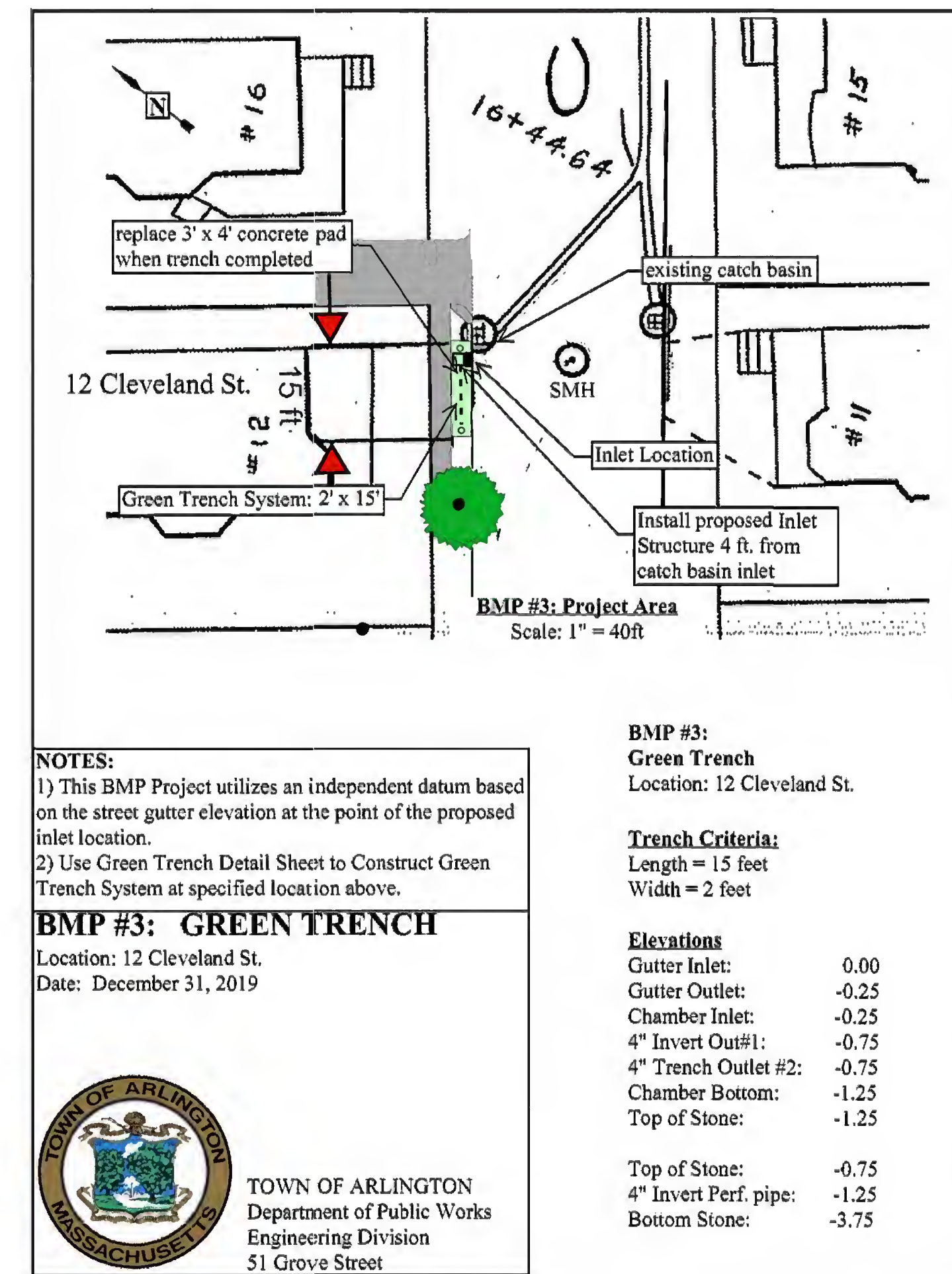
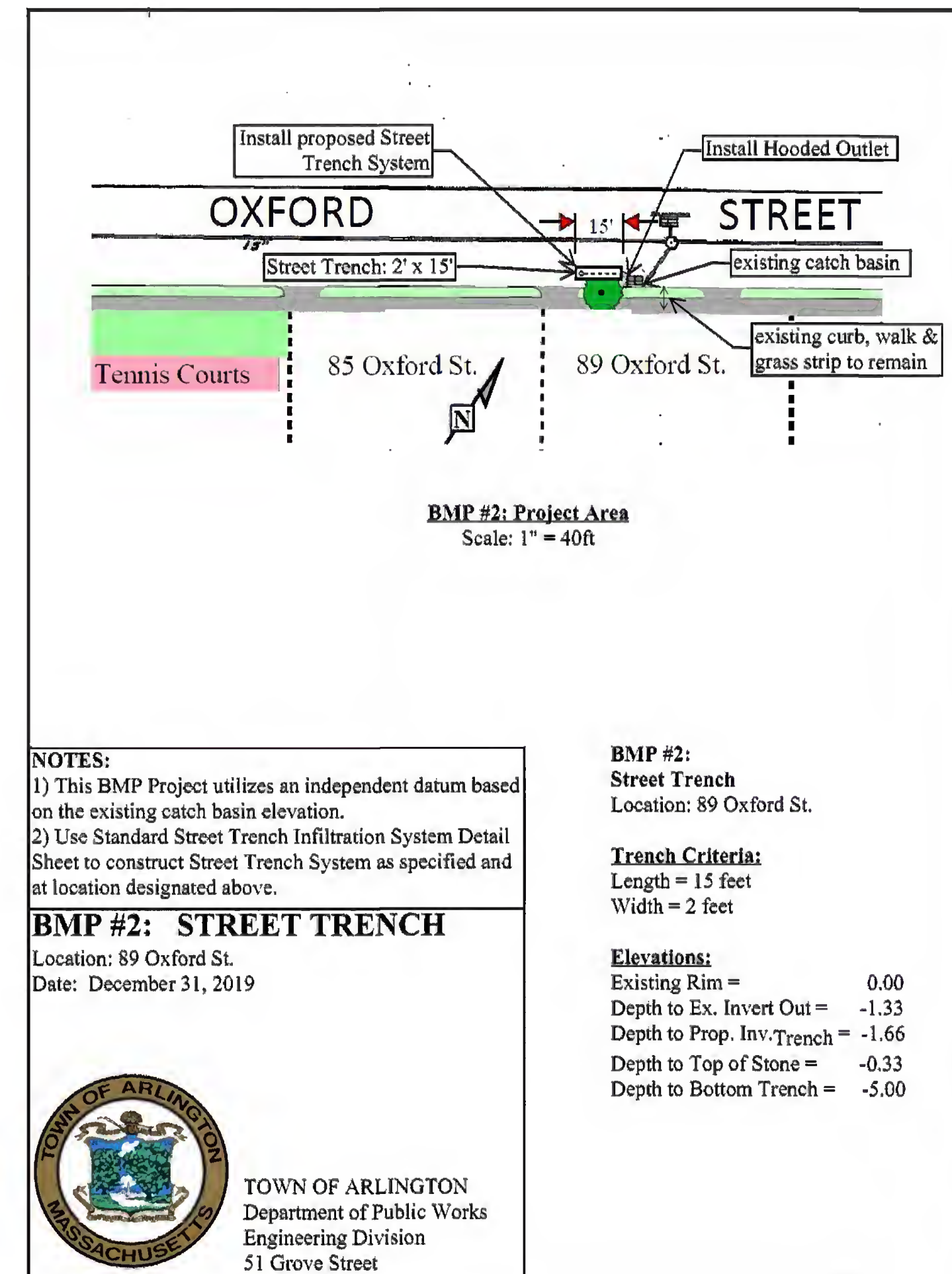
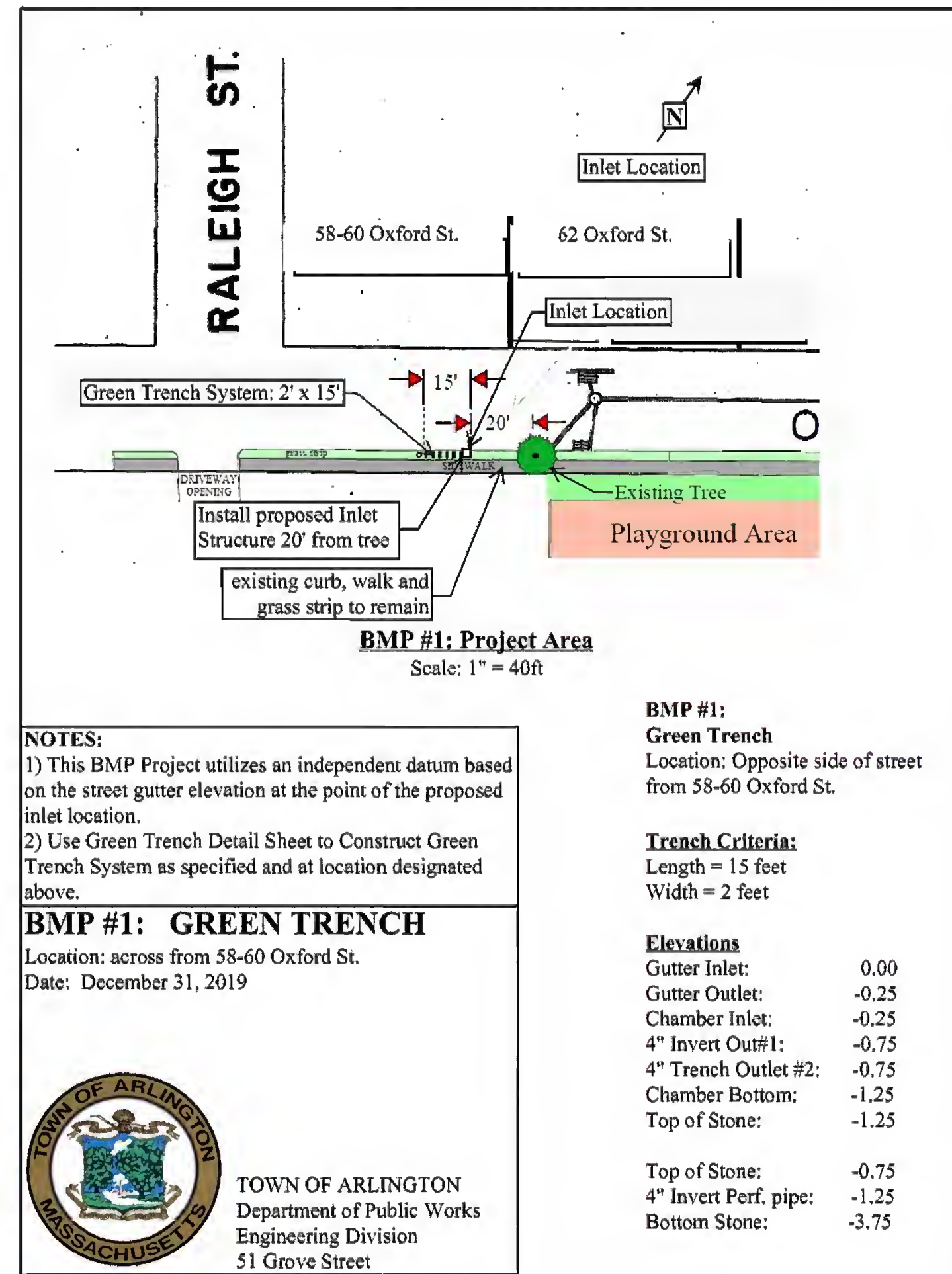
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**ARLINGTON**  
Engineering Division  
51 Grove Street  
Arlington, MA 02476

2020 GREEN  
INFRASTRUCTURE  
IMPROVEMENT PROJECT

RAIN GARDEN DETAILS

Project: #20-09  
Drawn By: WAC  
Scale: AS NOTED  
Date: FEBRUARY 2020

5 of 11



NOTES

No.	Revision/Issue	Date

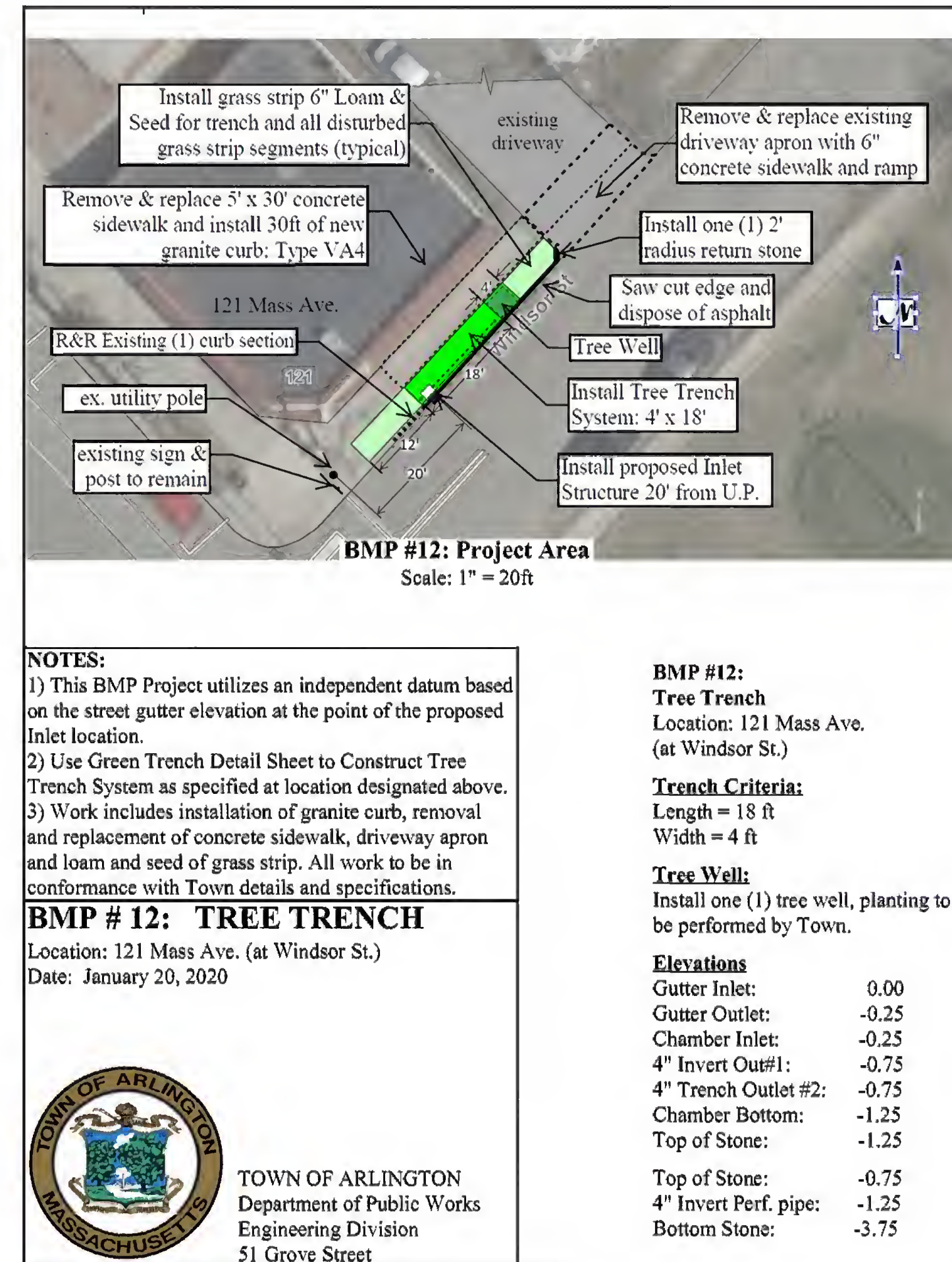
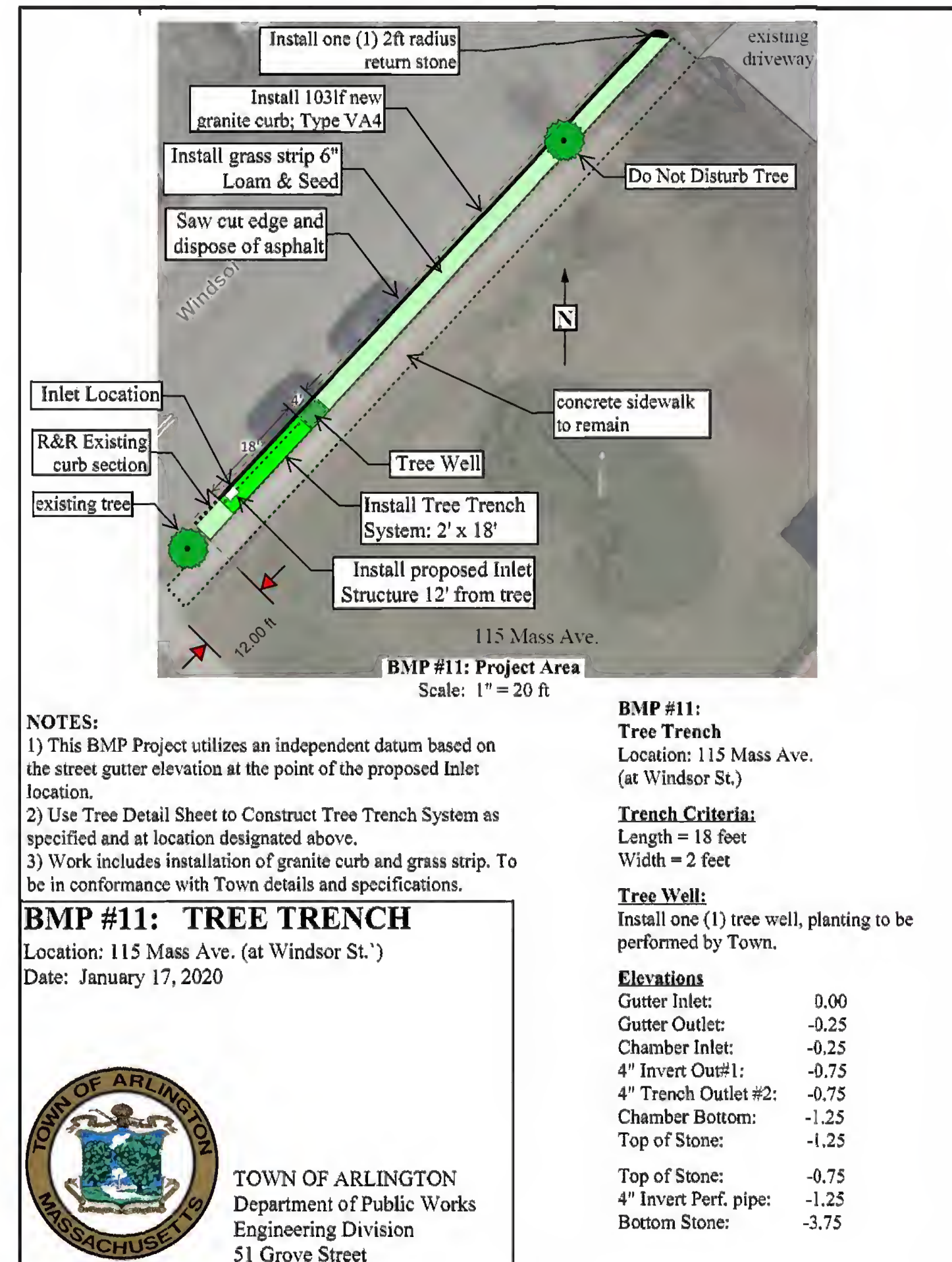
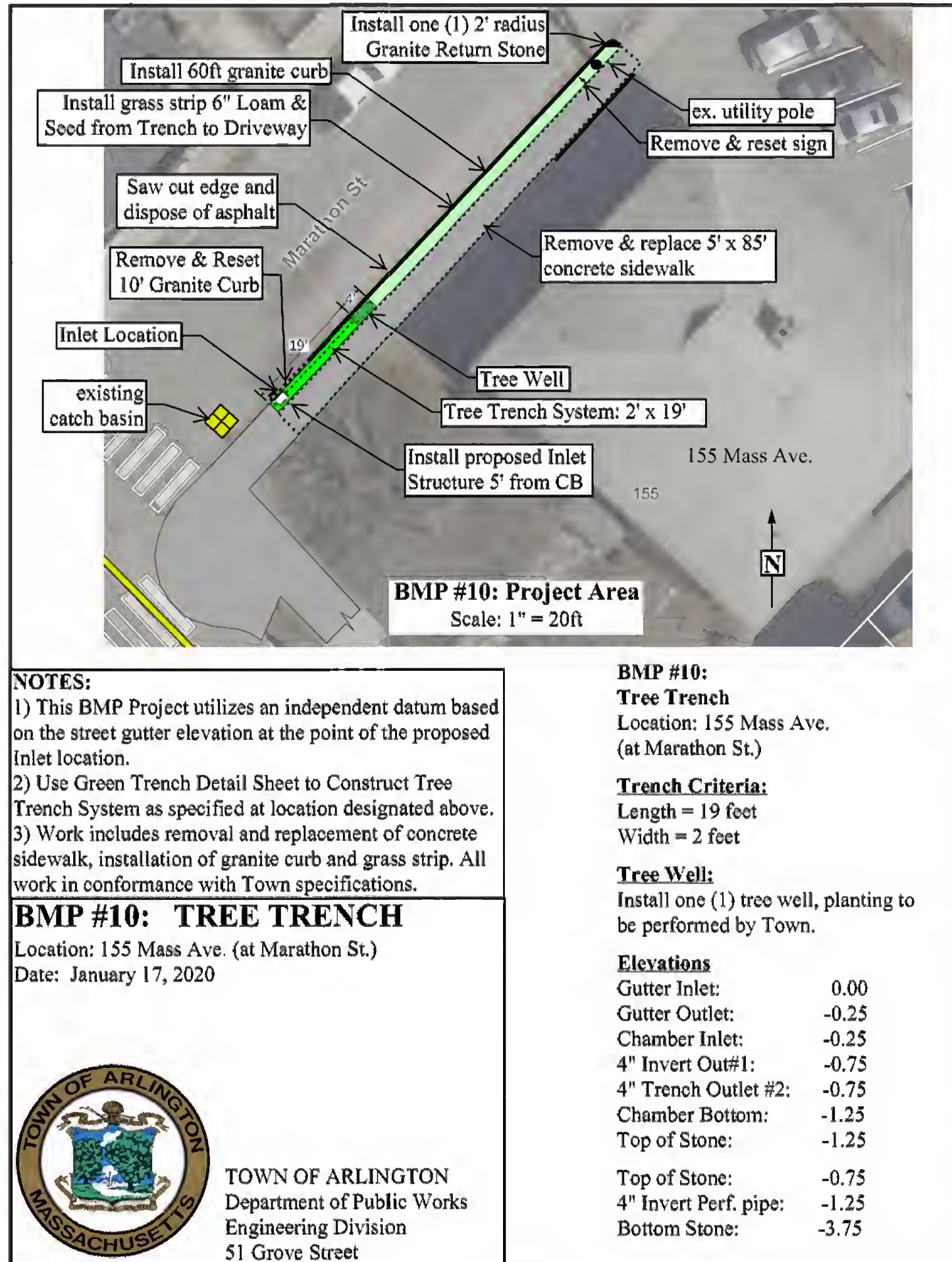
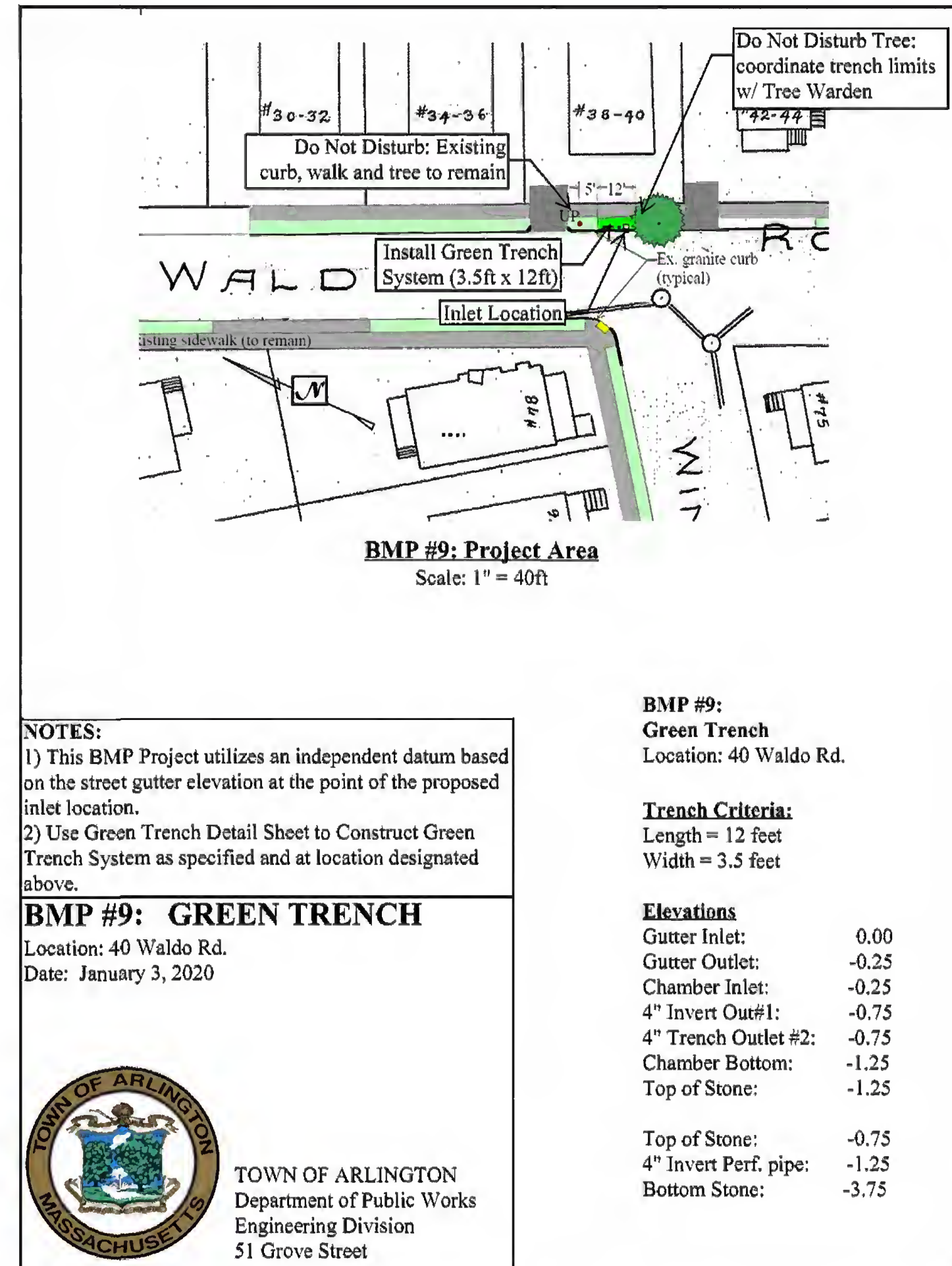
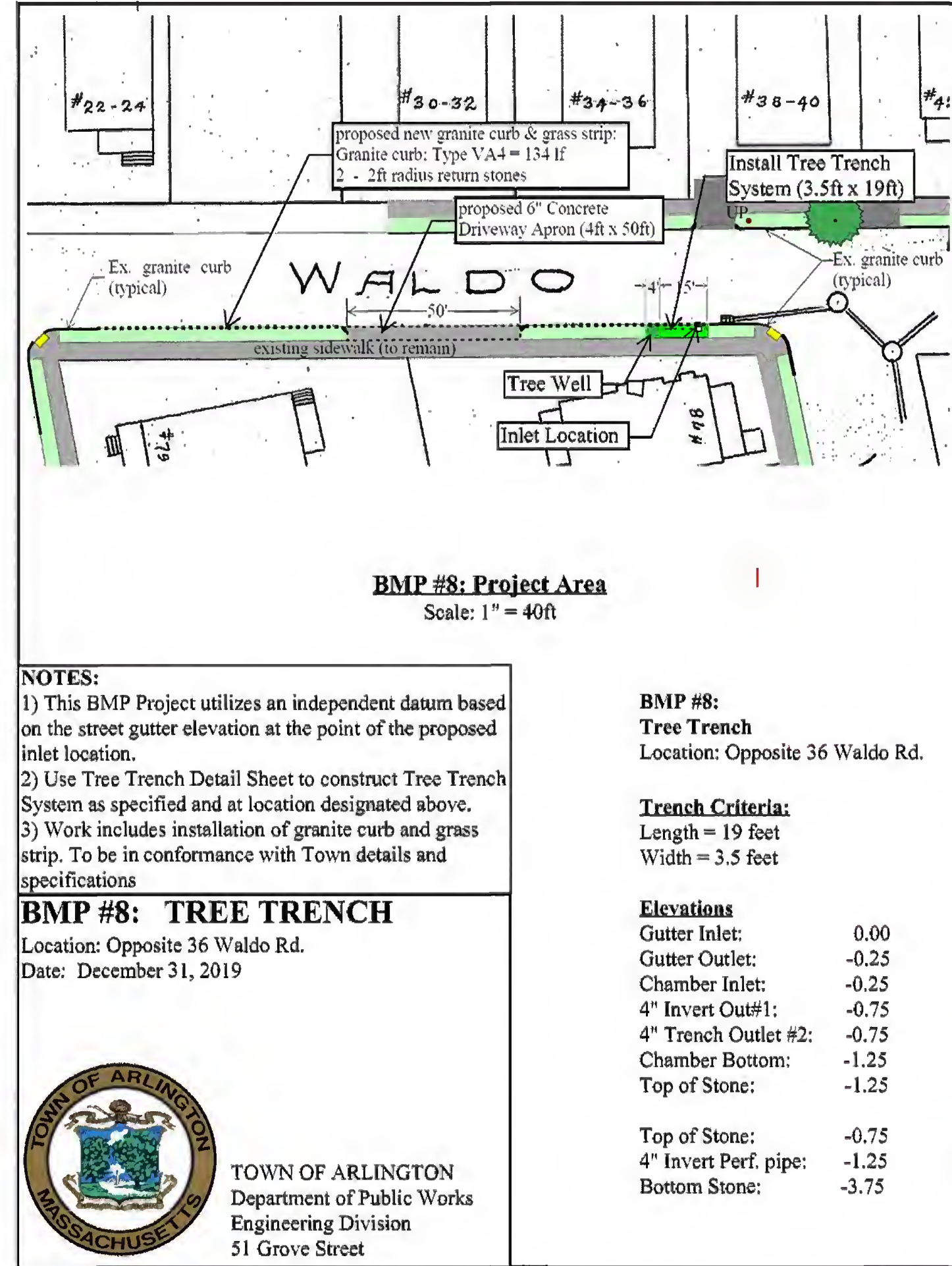
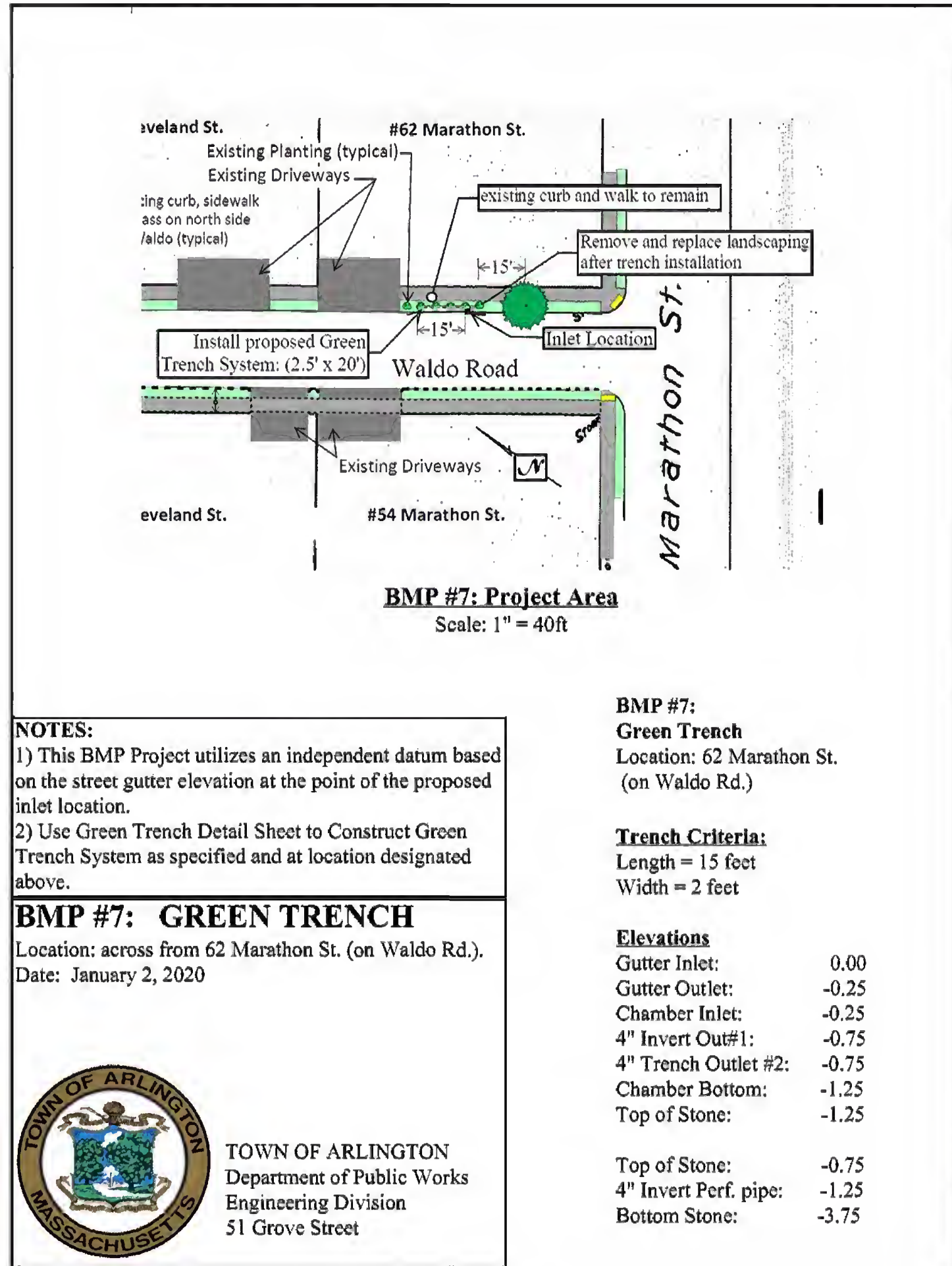
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**2020 GREEN INFRASTRUCTURE IMPROVEMENT PROJECT**

**BMP #1 TO #6**

Project:	#20-09	Sheet:	
Drawn By:	WAC		
Scale:	AS NOTED		
Date:	FEBRUARY 2020		

6 of 11



NOTES

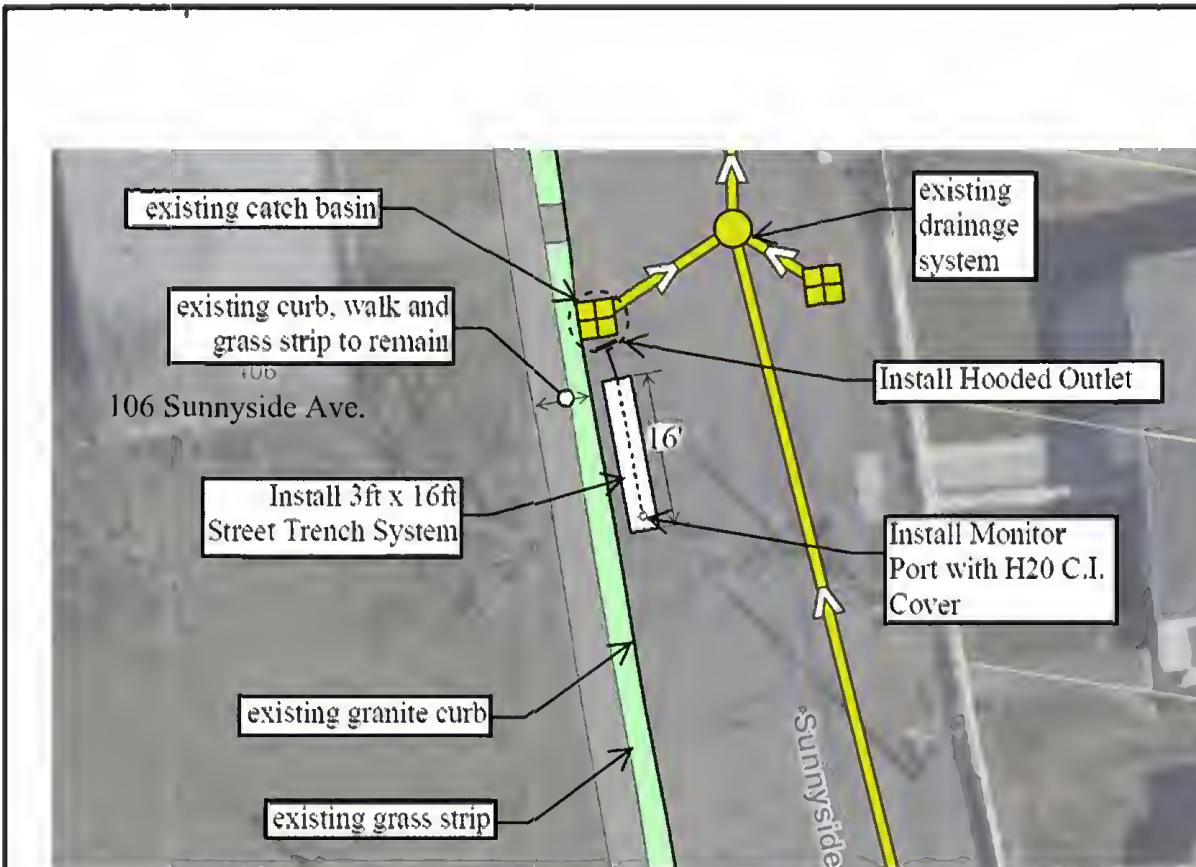
No.	Revision/Issue	Date

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**2020 GREEN  
INFRASTRUCTURE  
IMPROVEMENT PROJECT**

**BMP #7 TO #12**

Project:	#20-09	Sheet:
Drawn By:	WAC	7 of 11
Scale:	AS NOTED	
Date:	FEBRUARY 2020	



NOTES:  
1) This BMP Project utilizes an independent datum based on the existing catch basin elevation.  
2) Use Standard Street Trench Infiltration System Detail Sheet to construct trench at specified location above.

**BMP #13: STREET TRENCH**

Location: 106 Sunnyside Ave.  
Date: January 20, 2020

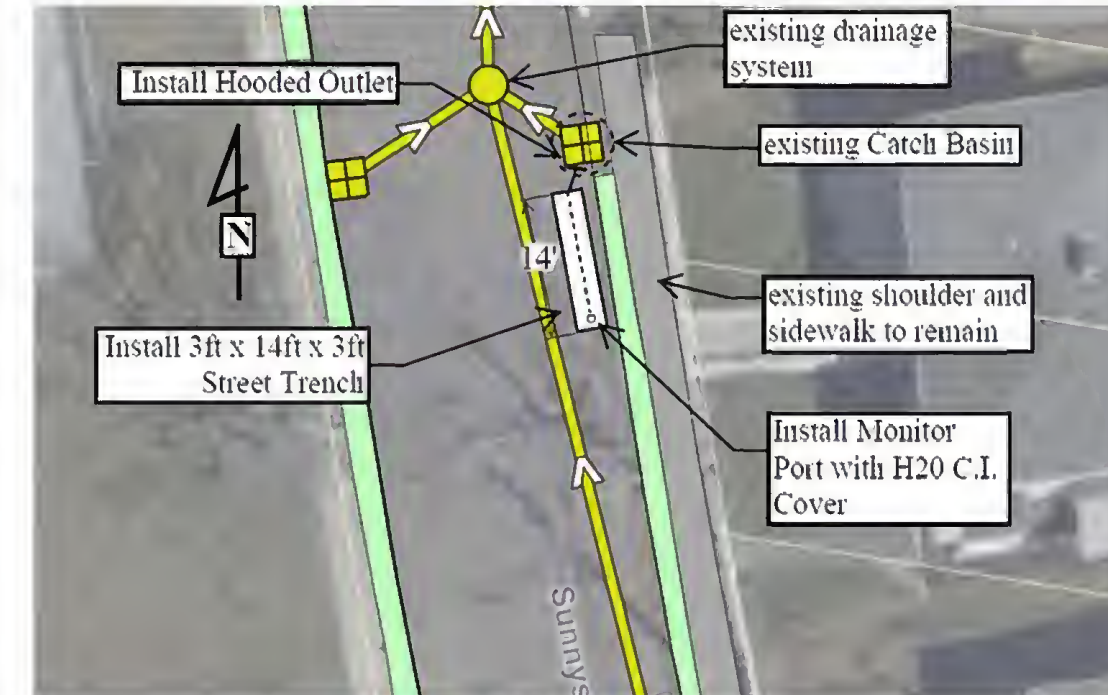


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Engineering Division  
51 Grove Street

**BMP #13:**  
**Street Trench**  
Location: 106 Sunnyside Ave.

**Trench Criteria:**  
Length = 16 ft  
Width = 3 ft

**Elevations:**  
Existing Rim = 0.00  
Depth to Ex. Invert Out = -1.33  
Depth to Prop. Inv. Trench = -1.66  
Depth to Top of Stone = -0.33  
Depth to Bottom Trench = -5.00



**BMP #14 Project Area**  
Scale: 1" = 20ft

NOTES:  
1) This BMP Project utilizes an independent datum based on the existing catch basin elevation.  
2) Use Standard Street Trench Infiltration System Detail Sheet to construct trench at specified location above.

**BMP #14: STREET TRENCH**

Location: 109 Sunnyside Ave.  
Date: January 28, 2019

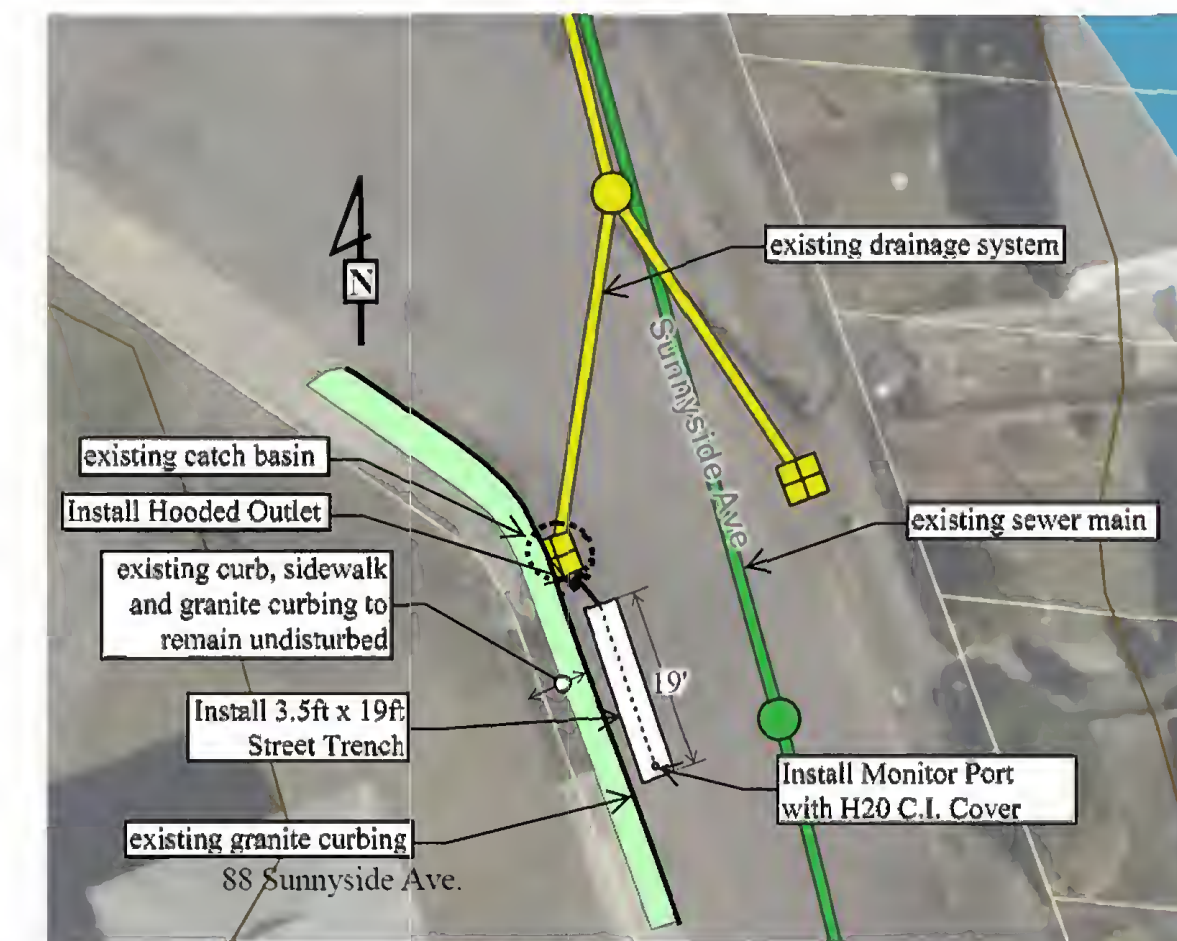


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**BMP #14:**  
**Street Trench**  
Location: 109 Sunnyside Ave.

**Trench Criteria:**  
Length = 14 feet  
Width = 3 feet

**Elevations:**  
Existing Rim = 0.00  
Depth to Ex. Invert Out = -1.33  
Depth to Prop. Inv. Trench = -1.66  
Depth to Top of Stone = -0.33  
Depth to Bottom Trench = -5.00



**BMP #15 Project Area**  
Scale: 1" = 20ft

NOTES:  
1) This BMP Project utilizes an independent datum based on the existing catch basin elevation.  
2) Use Standard Street Trench Infiltration System Detail Sheet to construct trench at specified location above.

**BMP #15: STREET TRENCH**

Location: 88 Sunnyside Ave.  
Date: January 28, 2019

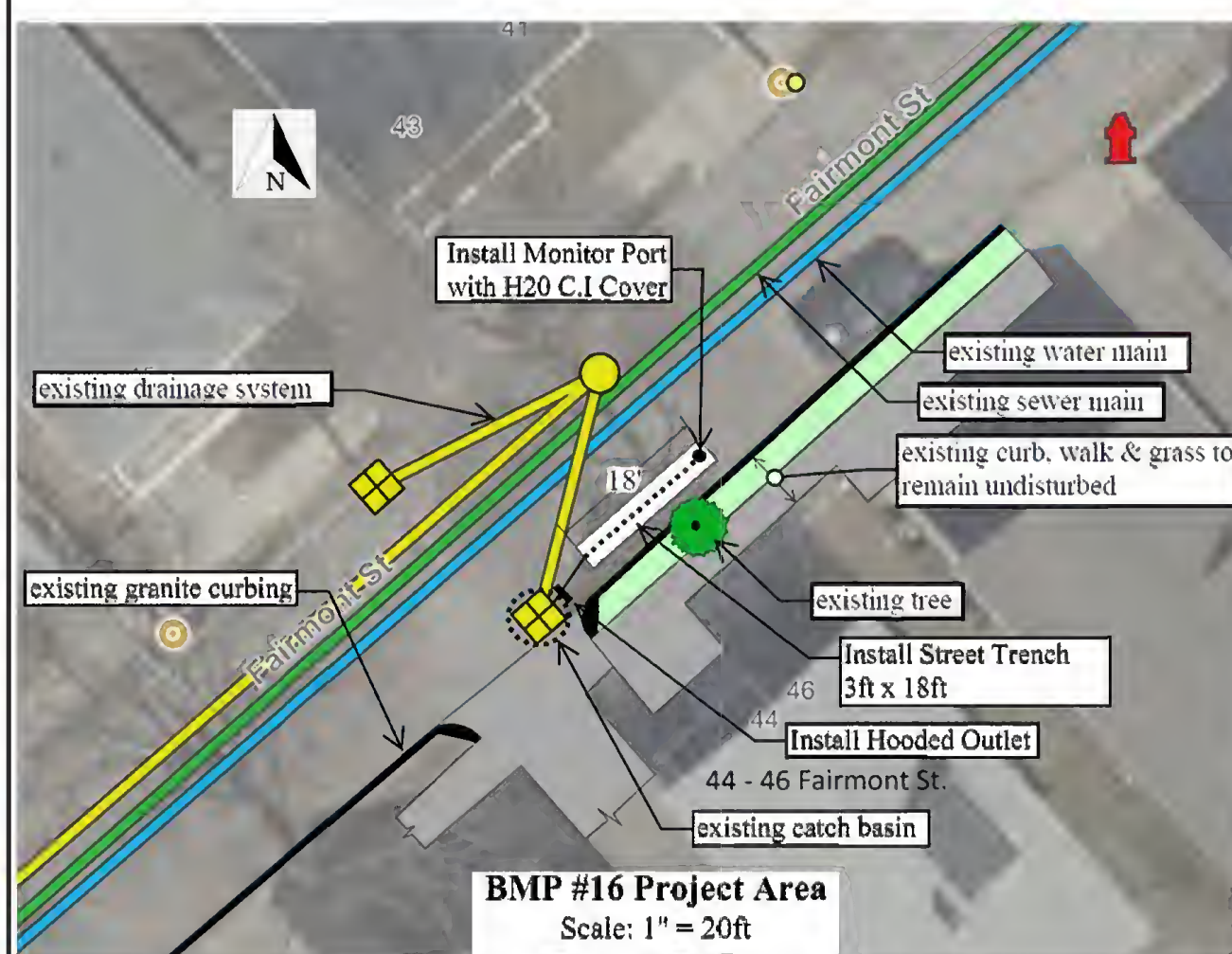


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51 Grove Street

**BMP #15:**  
**Street Trench**  
Location: 88 Sunnyside Ave.

**Trench Criteria:**  
Length = 19 feet  
Width = 3.5 feet

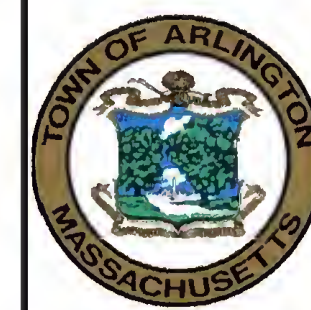
Design Elevations:	
Elevation: Existing Rim =	0.00
Ex. Invert Out =	-2.92 ft
Prop. Inv. Trench =	-3.17 ft
Top of Stone =	-0.33 ft
Bottom Trench =	-5.00 ft



NOTES:  
1) This BMP Project utilizes an independent datum based on the existing catch basin elevation.  
2) Use Standard Street Trench Infiltration System Detail Sheet to construct trench at specified location above.

**BMP #16: STREET TRENCH**

Location: 44 - 46 Fairmont St.  
Date: January 29, 2019

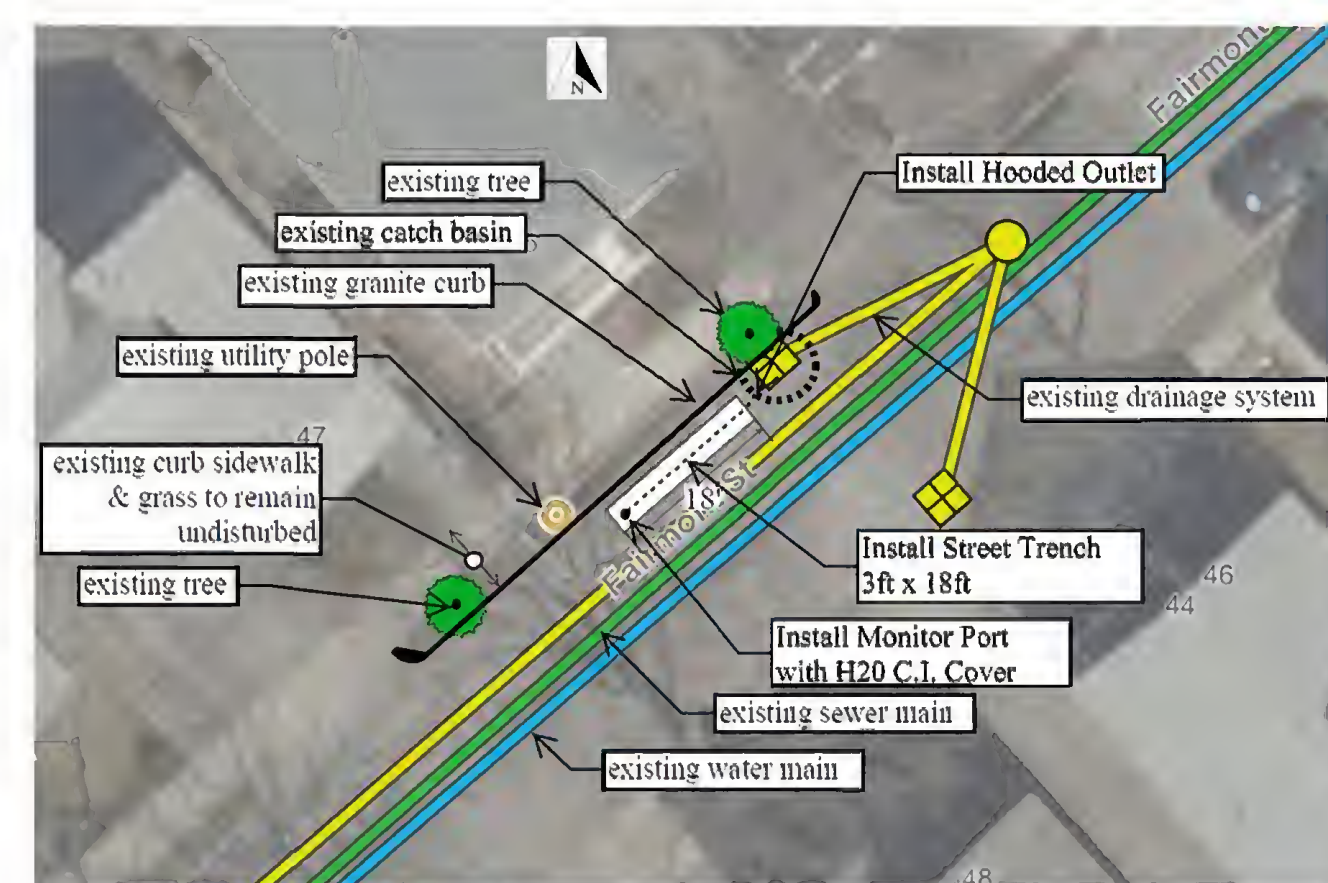


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**BMP #16:**  
**Street Trench**  
Location: 44-46 Fairmont St.

**Trench Criteria:**  
Length = 18 feet  
Width = 3 feet

Design Elevations:	
Elevation: Existing Rim =	0.00
Ex. Invert Out =	-2.79 ft
Prop. Inv. Trench =	-3.04 ft
Top of Stone =	-0.33 ft
Bottom Trench =	-5.00 ft



**BMP #17 Project Area**  
Scale: 1" = 20ft

NOTES:  
1) This BMP Project utilizes an independent datum based on the existing catch basin elevation.  
2) Use Standard Street Trench Infiltration System Detail Sheet to construct trench at specified location above.

**BMP #17: STREET TRENCH**

Location: 45 Fairmont St.  
Date: January 29, 2019

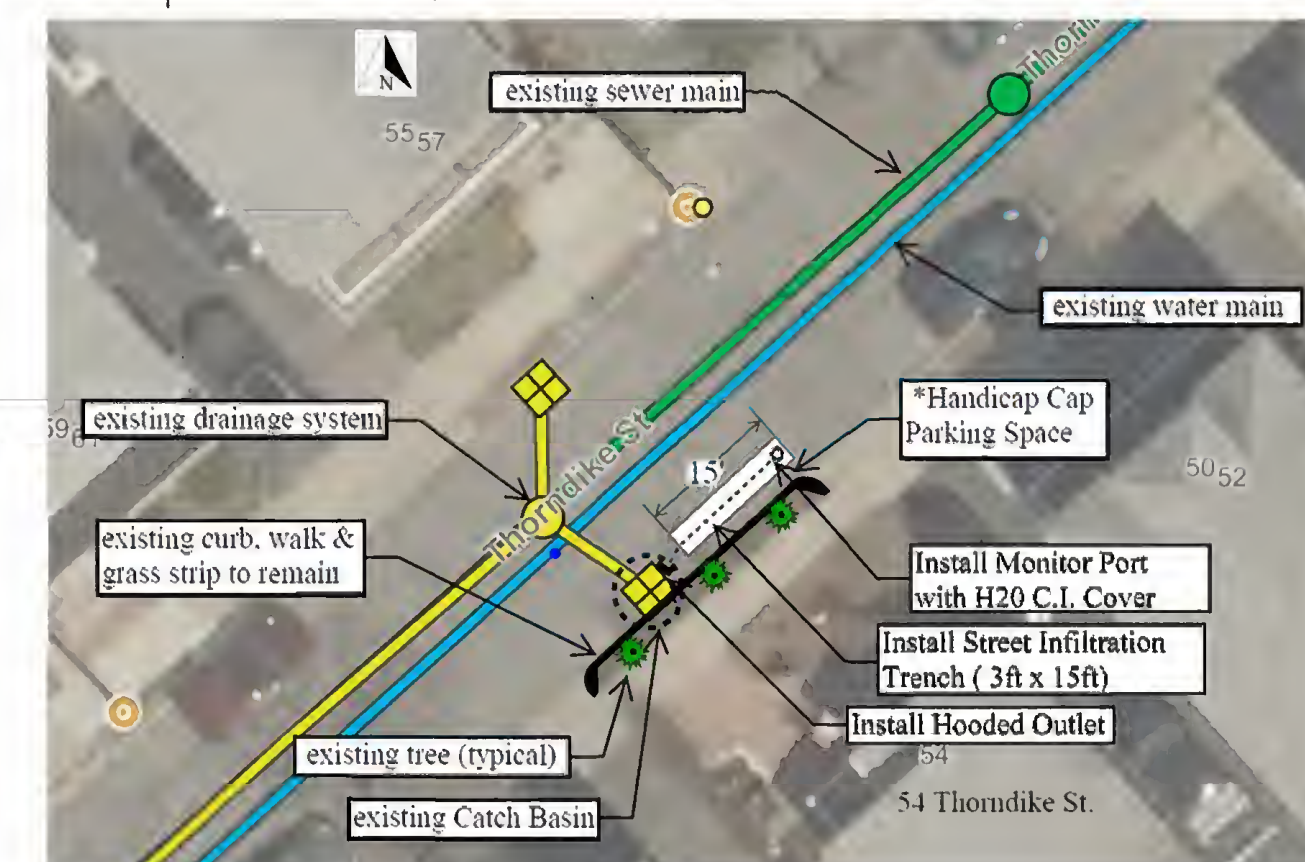


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**BMP #17:**  
**Street Trench**  
Location: 45 Fairmont St.

**Trench Criteria:**  
Length = 18 feet  
Width = 3 feet

Design Elevations:	
Elevation: Existing Rim =	0.00
Ex. Invert Out =	-2.42 ft
Prop. Inv. Trench =	-2.67 ft
Top of Stone =	-0.33 ft
Bottom Trench =	-5.00 ft



**BMP #18 Project Area**  
Scale: 1" = 20ft

NOTES:  
1) This BMP Project utilizes an independent datum based on the existing catch basin elevation.  
2) Use Standard Street Trench Infiltration System Detail Sheet to construct trench at specified location above.  
\* 3) Extra care and communication shall be used to coordinate alternative parking for the Handicap Parking Space located in front of 54 Thorndike St.

**BMP #18: STREET TRENCH**

Location: 54 Thorndike St.  
Date: January 29, 2019



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**BMP #18:**  
**Street Trench**  
Location: 54 Thorndike St.

**Trench Criteria:**  
Length = 15 feet  
Width = 3 feet

Design Elevations:	
Elevation: Existing Rim =	0.00
Ex. Invert Out =	-1.83 ft
Prop. Inv. Trench =	-2.08 ft
Top of Stone =	-0.33 ft
Bottom Trench =	-5.00 ft

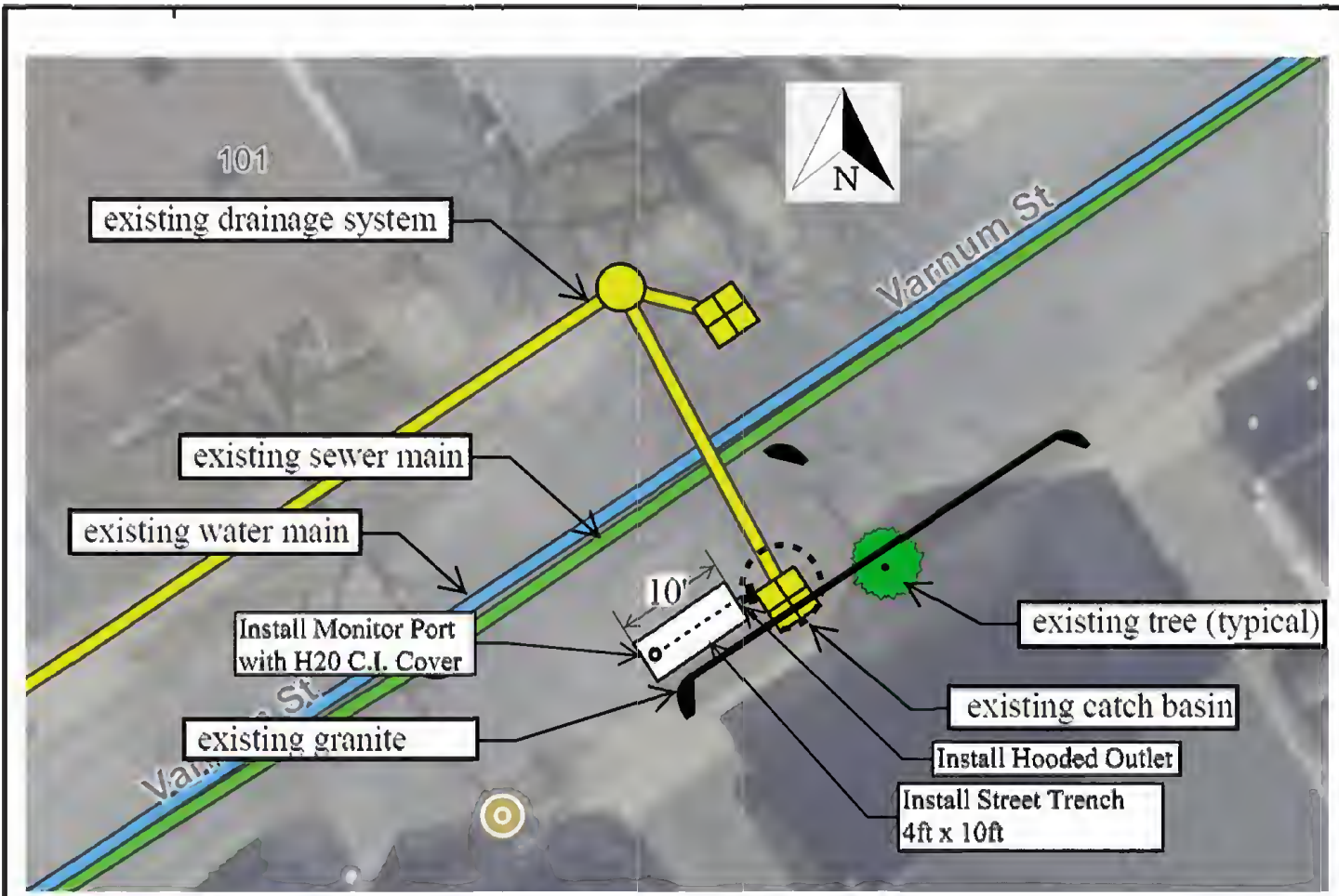
NOTES

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**2020 GREEN  
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**BMP #13 TO #18**

Project: #20-09  
Drawn By: WAC  
Scale: AS NOTED  
Date: FEBRUARY 2020



**BMP #19 Project Area**  
Scale: 1" = 20ft

**NOTES:**  
1) This BMP Project utilizes an independent datum based on the existing catch basin elevation.  
2) Use Standard Street Trench Infiltration System Detail Sheet to construct trench at specified location above.

**BMP #19: STREET TRENCH**

Location: 100 Varnum St.  
Date: January 30, 2020

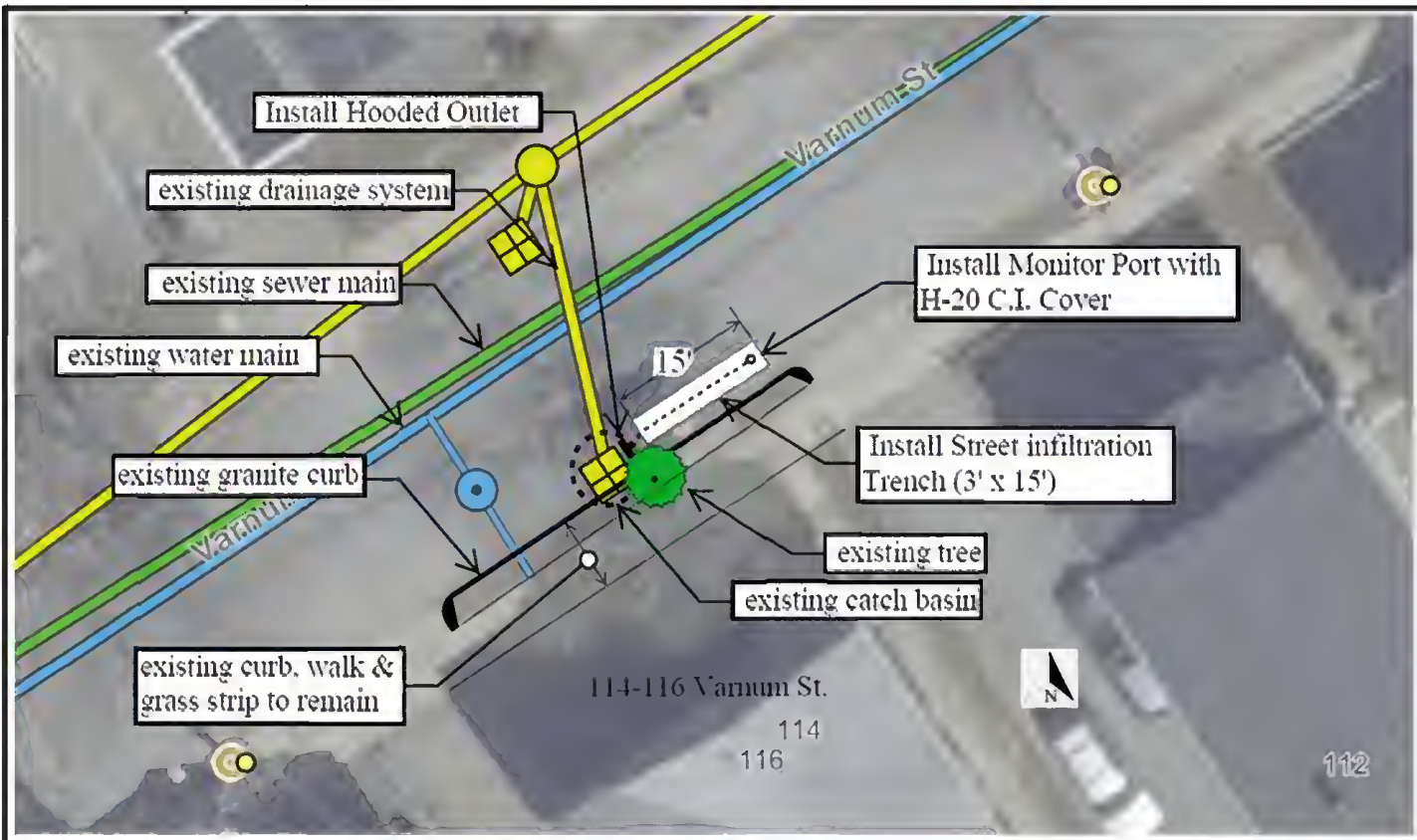


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Department of Public Works  
Engineering Division  
51 Grove Street

**BMP #19:**  
**Street Trench**  
Location: 100 Varnum St.

**Trench Criteria:**  
Length = 10 feet  
Width = 4 feet

Design Elevations:	
Elevation: Existing Rim =	0.00
Ex. Invert Out =	-1.65 ft
Prop. Inv.Trench =	-1.90 ft
Top of Stone =	-0.33 ft
Bottom Trench =	-5.00 ft



**BMP #20 Project Area**  
Scale: 1" = 20ft

**NOTES:**  
1) This BMP Project utilizes an independent datum based on the existing catch basin elevation.  
2) Use Standard Street Trench Infiltration System Detail Sheet to construct trench at specified location above.

**BMP #20: STREET TRENCH**

Location: 114 - 116 Varnum St.  
Date: January 30, 2020

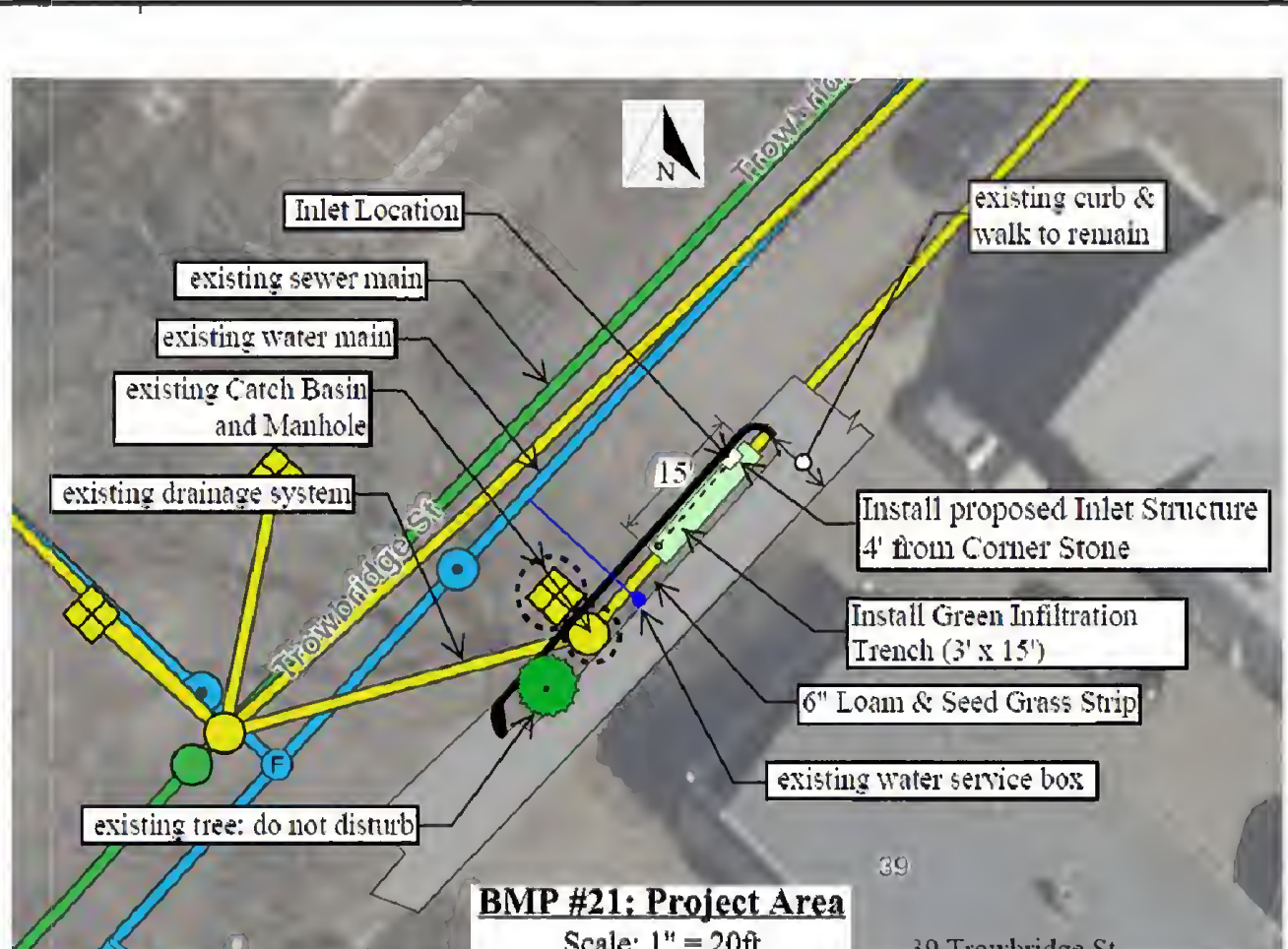


TOWN OF ARLINGTON  
Department of Public Works  
Engineering Division  
51 Grove Street

**BMP #20:**  
**Street Trench**  
Location: 114 - 116 Varnum St.

**Trench Criteria:**  
Length = 15 feet  
Width = 3 feet

Design Elevations:	
Elevation: Existing Rim =	0.00
Ex. Invert Out =	-2.00 ft
Prop. Inv.Trench =	-2.25 ft
Top of Stone =	-0.33 ft
Bottom Trench =	-5.00 ft



**BMP #21: Project Area**  
Scale: 1" = 20ft

**NOTES:**  
1) This BMP Project utilizes an independent datum based on the street gutter elevation at the point of the proposed inlet location.  
2) Use Green Trench Detail Sheet to Construct Trench at specified location above.

**BMP #21: GREEN TRENCH**

Location: 39 Trowbridge St.  
Date: January 30, 2020



TOWN OF ARLINGTON  
Department of Public Works  
Engineering Division  
51 Grove Street

**BMP #21:**  
**Green Trench**  
Location: 39 Trowbridge St.

**Trench Criteria:**  
Length = 15 feet  
Width = 2 feet

Elevations	
Gutter Inlet:	0.00
Gutter Outlet:	-0.25
Chamber Inlet:	-0.25
4" Invert Out#1:	-0.75
4" Trench Outlet #2:	-0.75
Chamber Bottom:	-1.25
Top of Stone:	-1.25
Top of Stone:	-0.75
4" Invert Perf. pipe:	-1.25
Bottom Stone:	-3.75

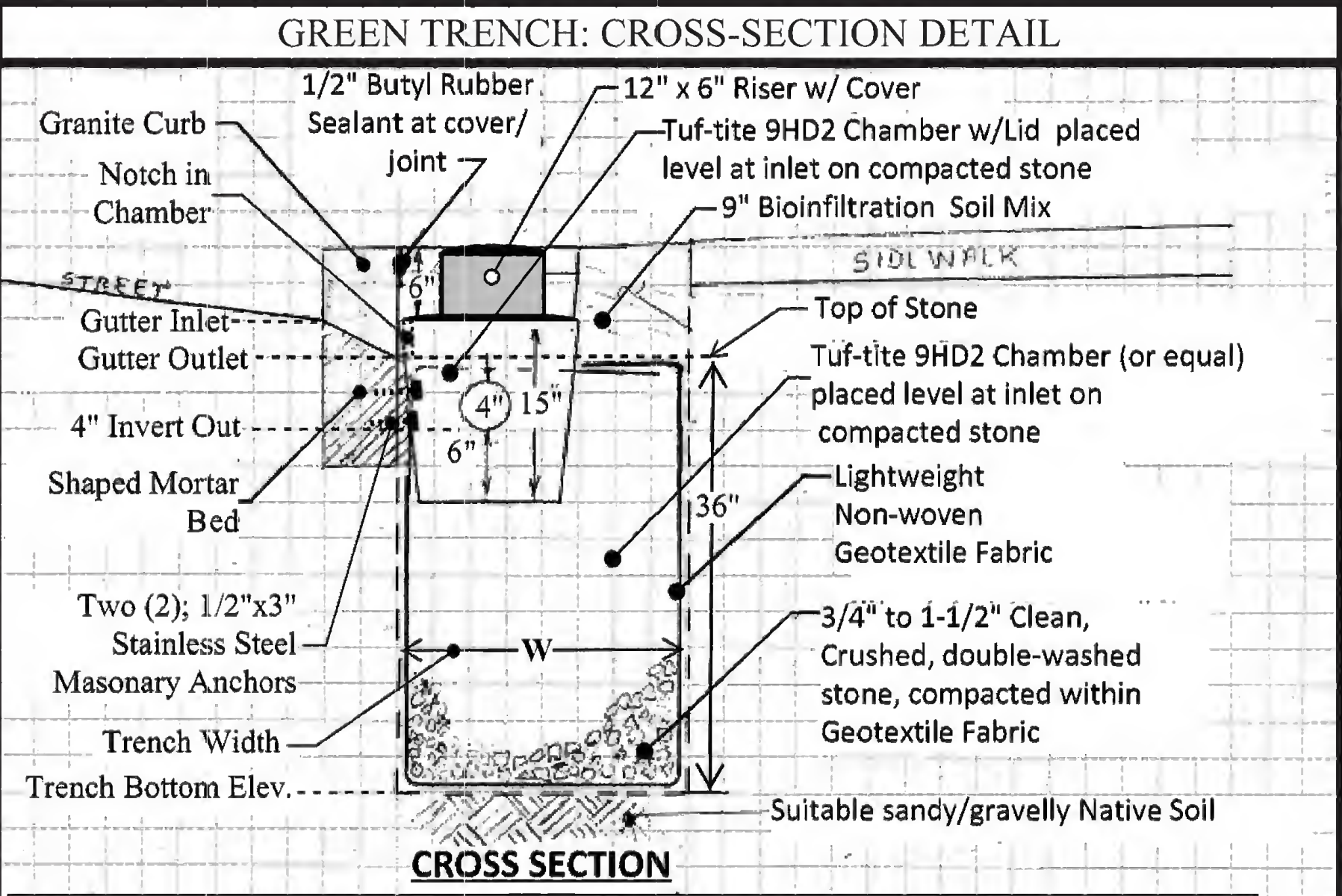
**NOTES**

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51 Grove Street  
Arlington, MA 02476

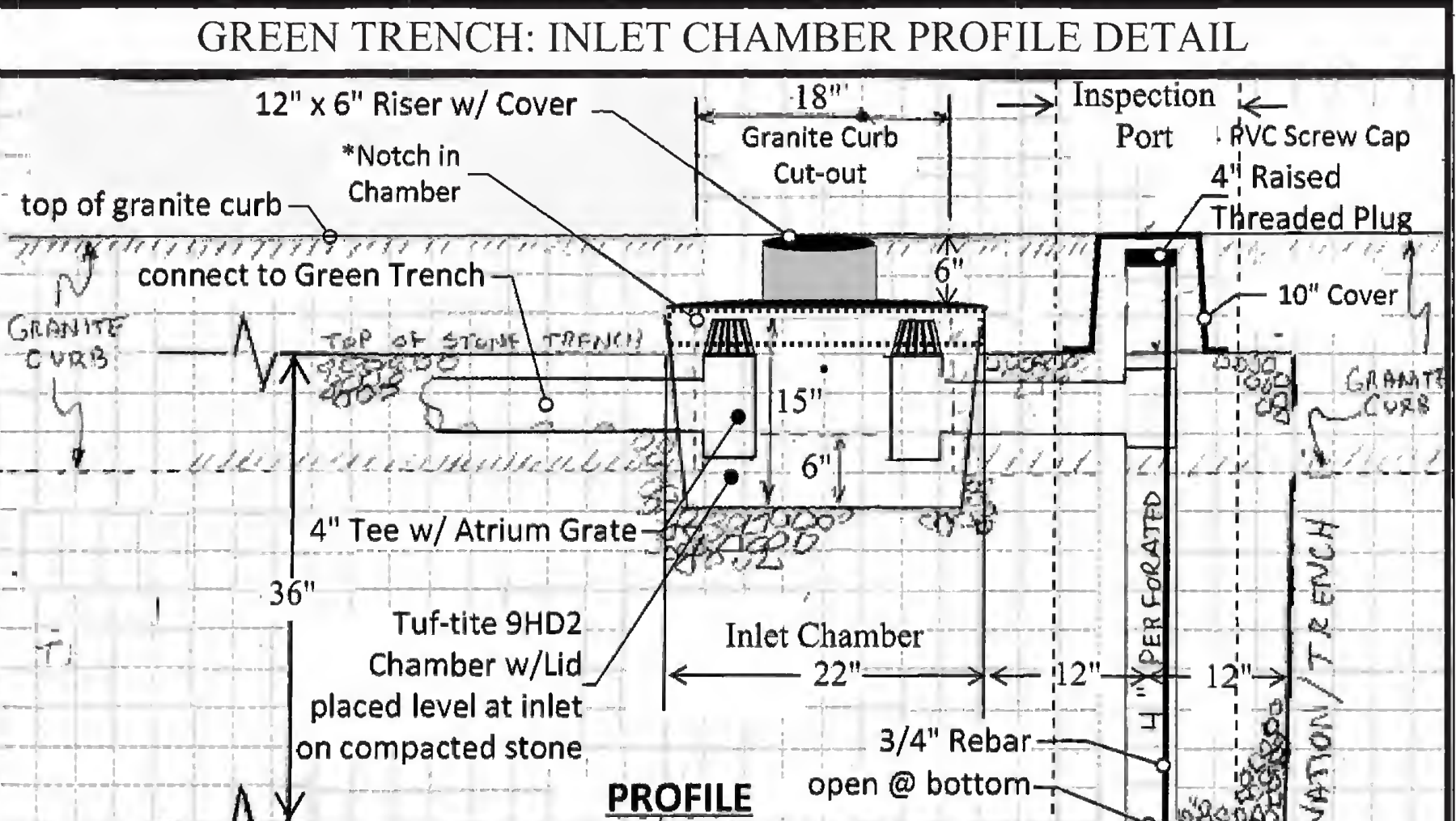
**2020 GREEN  
INFRASTRUCTURE  
IMPROVEMENT PROJECT**

**BMP #19 TO #21**

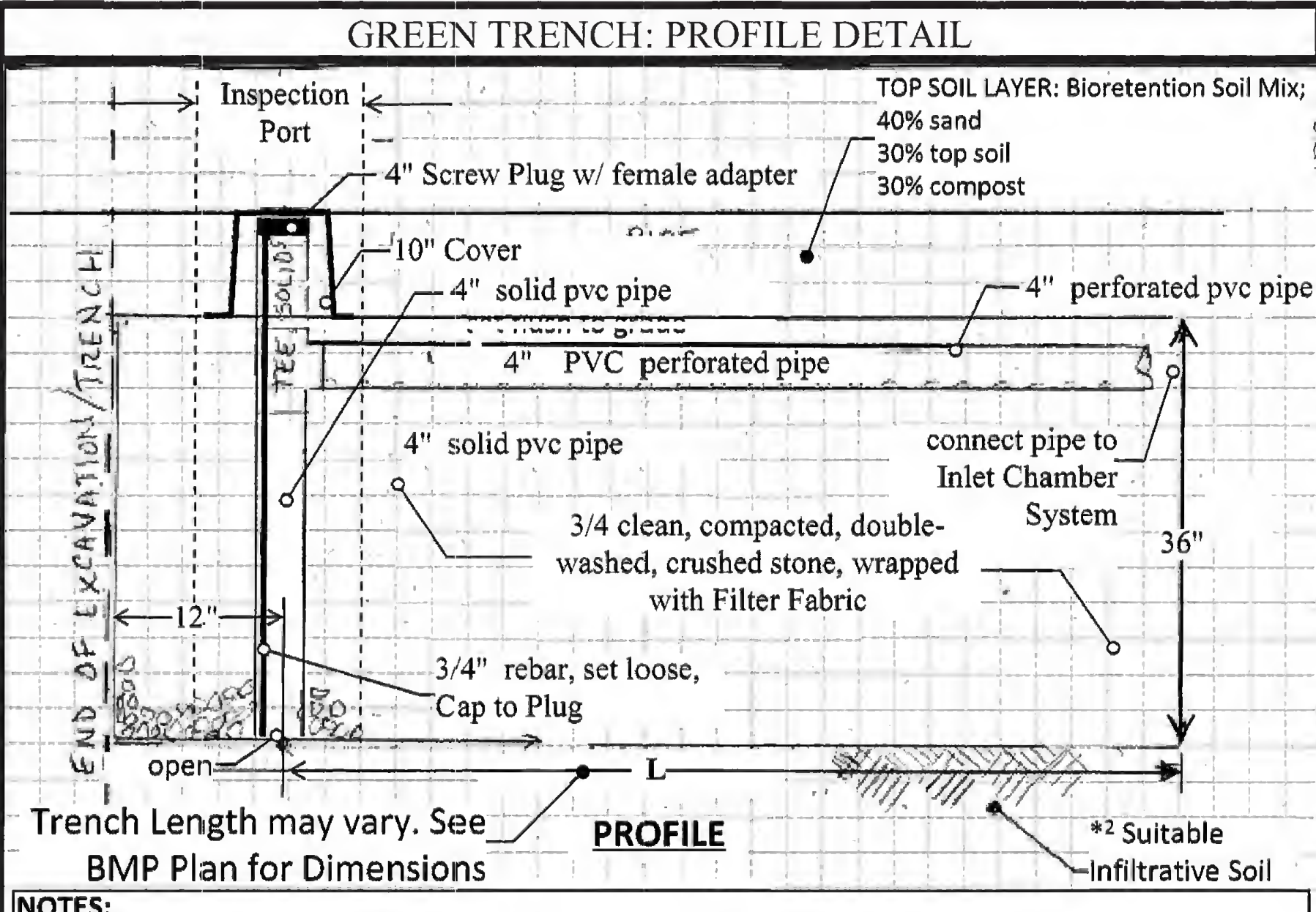
Project:	#20-09	Sheet:	
Drawn By:	WAC		
Scale:	AS NOTED		
Date:	FEBRUARY 2020		



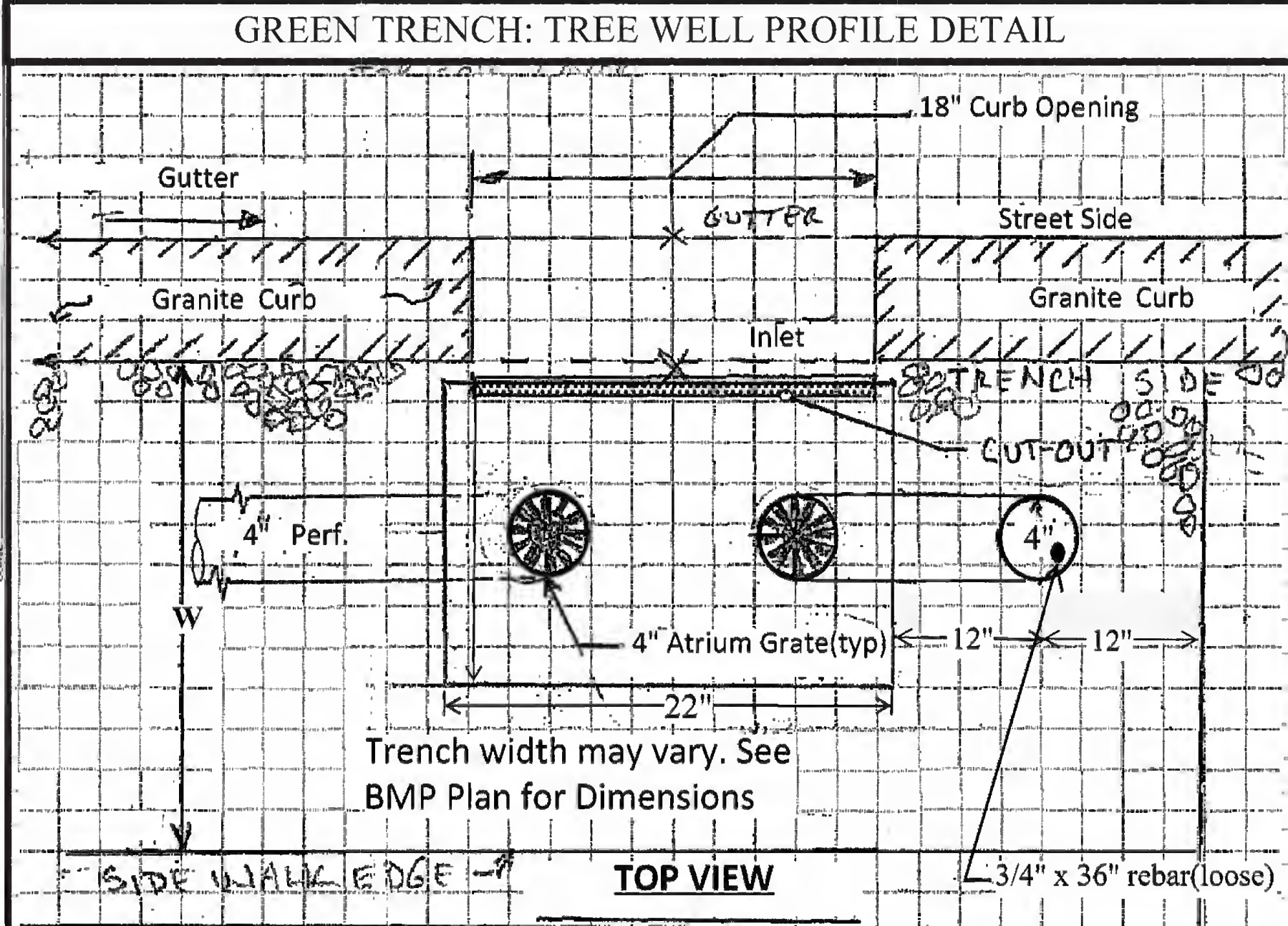
- NOTES:**
- 1) Trench shall be excavated to prescribed depth. Bottom of trench shall be and trench bottom scarified.
  - 2) All deleterious material to be removed and properly disposed of by contractor.
  - 3) All surfaces shall be placed back to original surface condition upon completion of trench.



- INLET CHAMBER SYSTEM NOTES:**
- 1) Tuf-Tite 9HD2 (or equal) shall be used for Inlet Chamber.
  - 2) Inlet Chamber shall be ordered with "No Holes", pipe rings shall only be installed on 2 Outlets.
  - 3) Inlet Chamber shall be placed at prescribed Depth. Remaining indentations shall be fitted with manufacturer's plug.
  - 4) Inlet Chamber shall be set level and include attached to Inlet Mortar Bed with 1/2" x 3" stainless steel masonry anchors, with washer/bolt.
  - 5) Inlet Chamber shall be attached to Inlet Mortar Bed with 1/2" x 3" stainless steel masonry anchors, with washer/bolt.
  - 6) Inlet Chamber System includes chamber, lid, riser, cover, tee (2), atrium grate (2)
  - 7) Inspection Port includes solid pipe(4'), 2-way cleanout, female adapter, threaded plug, 10" cover



- NOTES:**
- 1) Contractor shall coordinate with Engineering Division for inspection of the bottom of excavation prior to installation and collect a soil sample from bottom of excavation and package in zip-lock bag for Engineer.
  - 2) Contractor shall provide sketch indicating length, width and depth of trench and location of chamber, pipe and fittings for verification during Engineering Inspection.



- NOTES:**
- 1) Stone trench to be installed level and compacted with 36" depth. Depth of Top Soil Layer may vary due to slope of street.
  - 2) Top Soil Layer shall slope toward street to prevent ponding.

NOTES

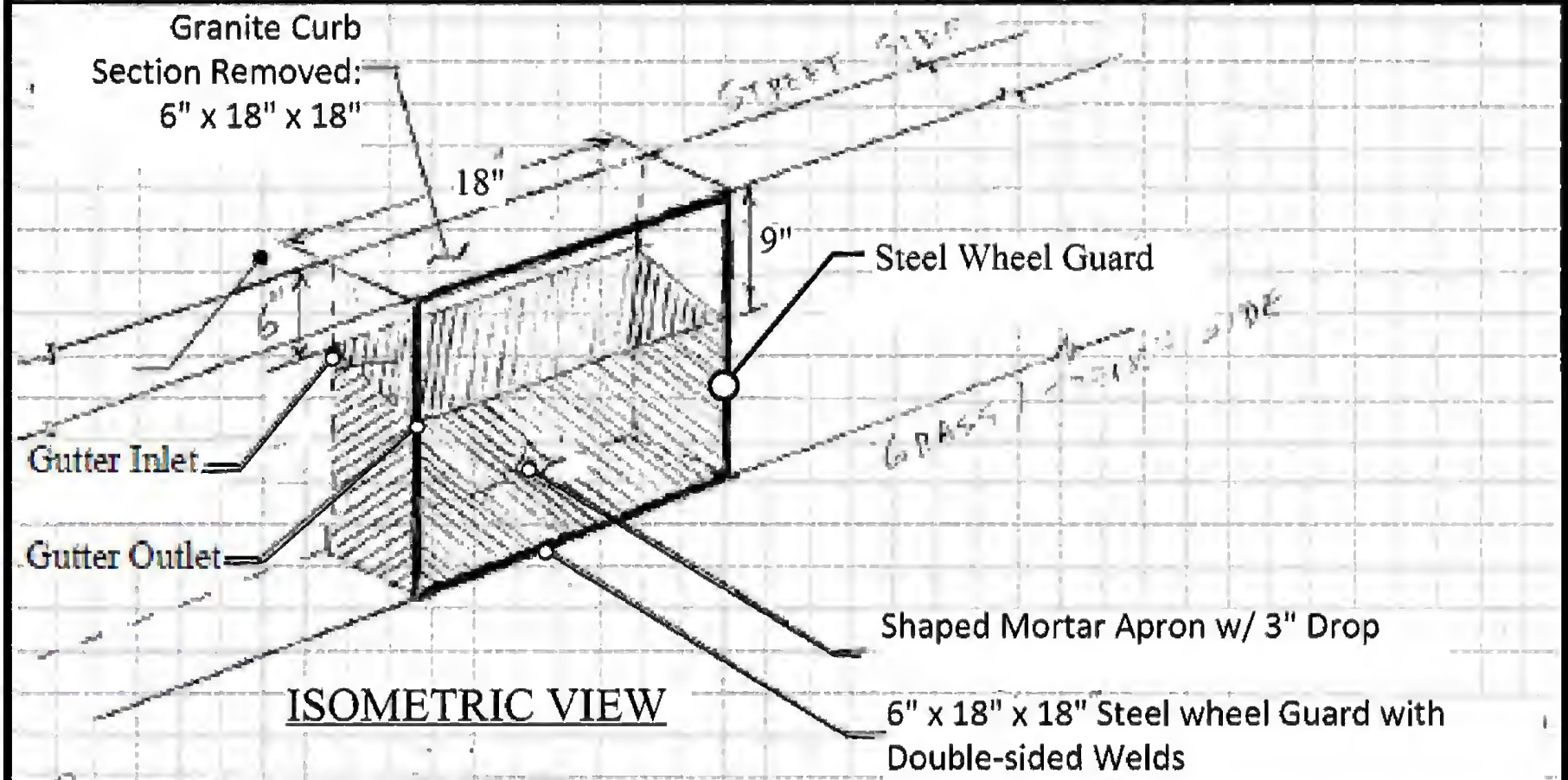
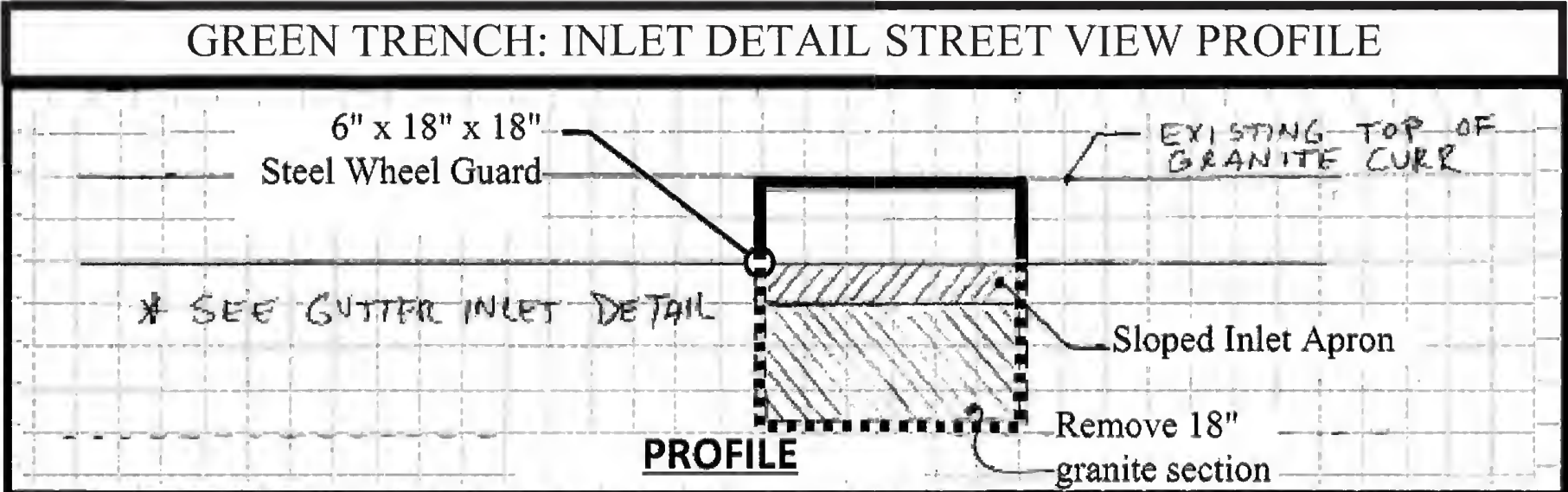
Town of  
**ARLINGTON**  
Engineering Division  
51 Grove Street  
Arlington, MA 02476

**2020 GREEN  
INFRASTRUCTURE  
IMPROVEMENT PROJECT**

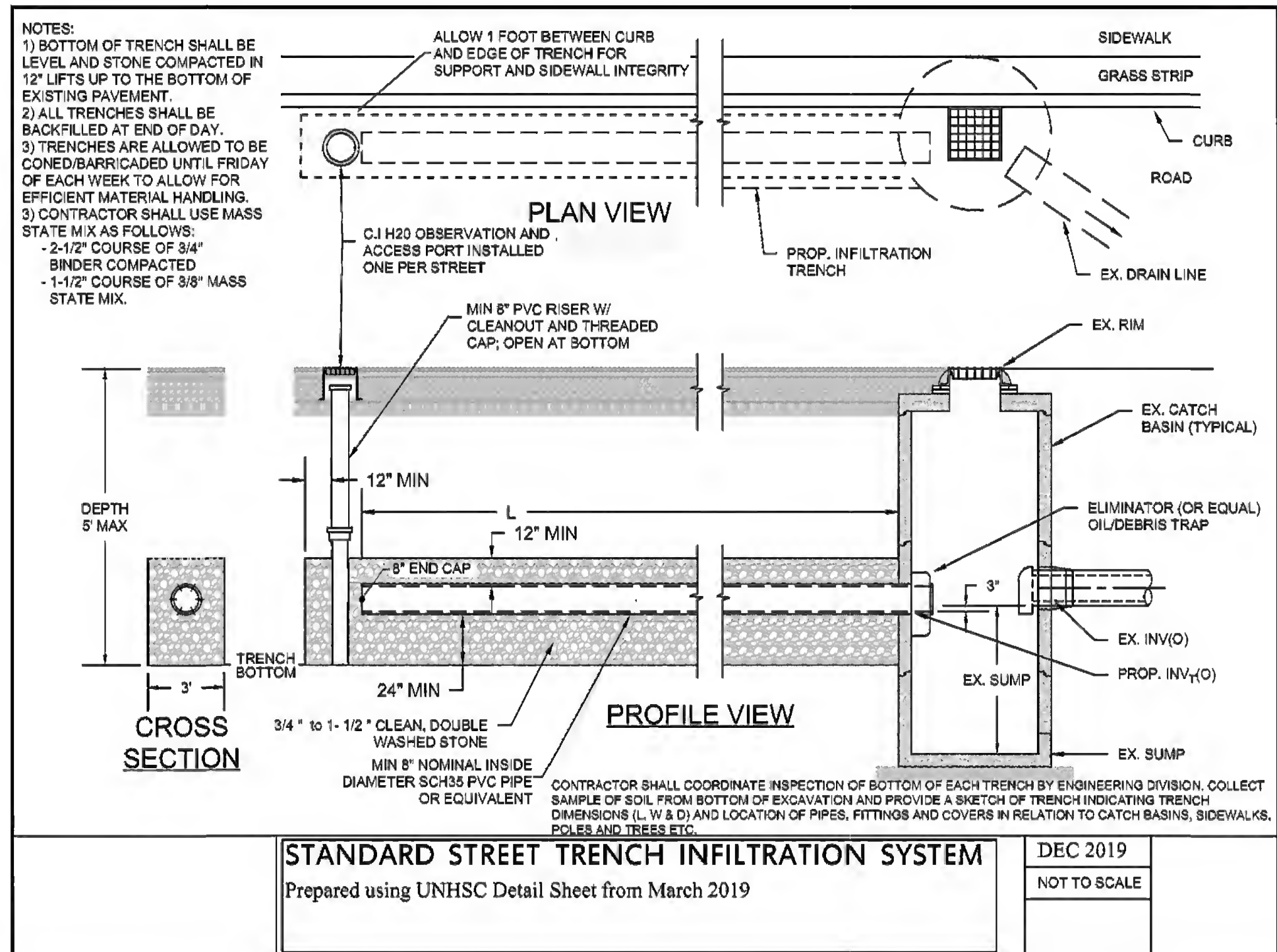
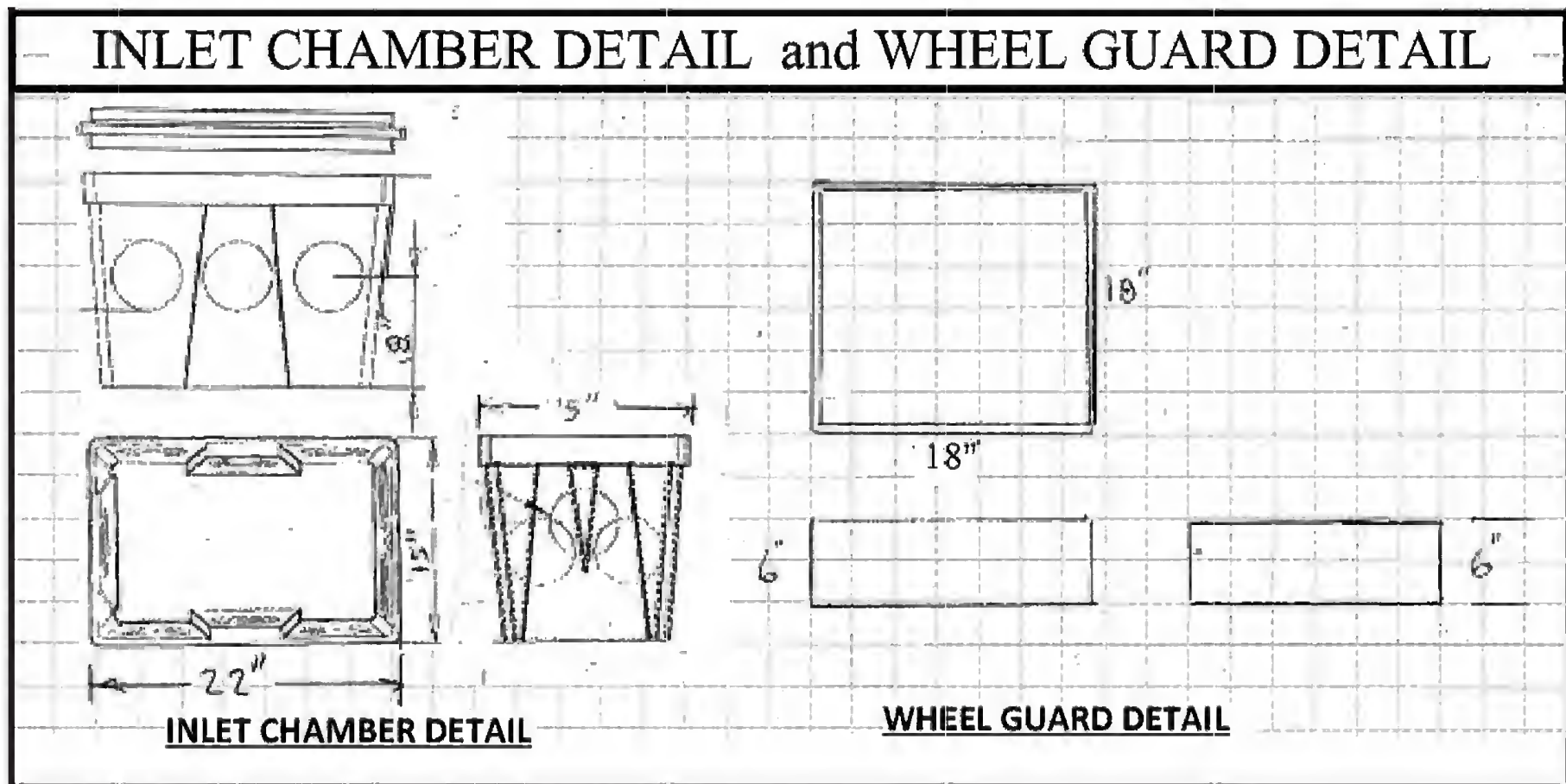
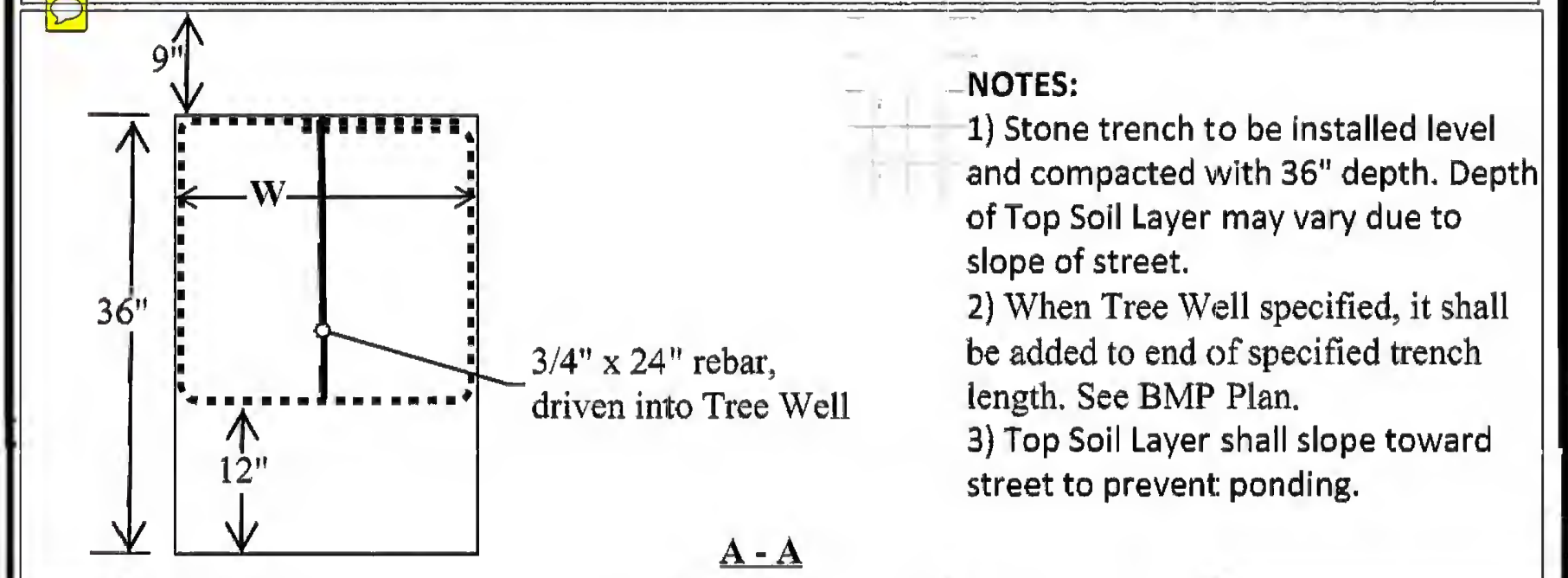
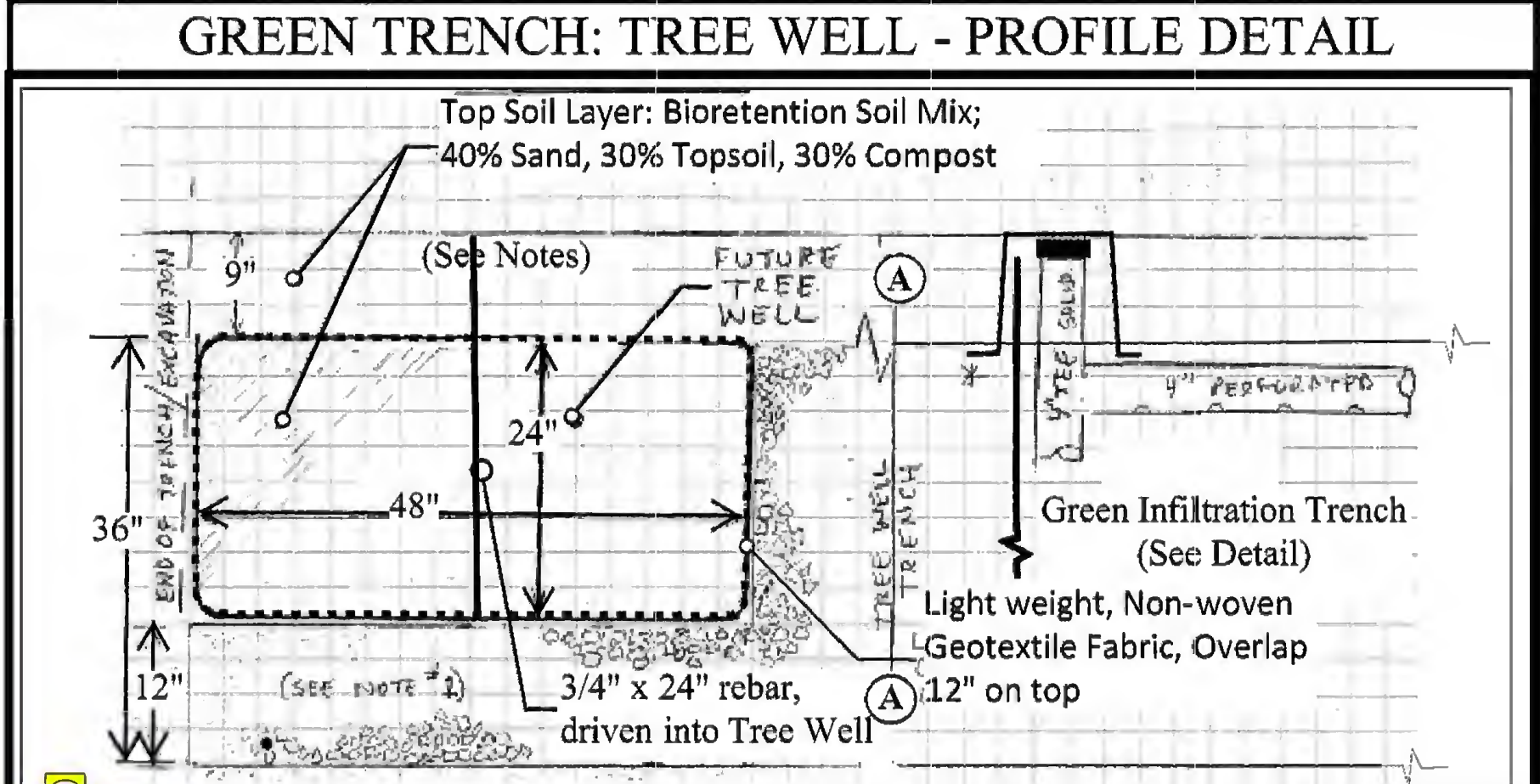
**TRENCH DETAILS**

Project:	#20-09	Sheet:	
Drawn By:	WAC		
Scale:	AS NOTED		
Date:	FEBRUARY 2020		

10 of 11



- GREEN TRENCH: INLET NOTES:**
- 1) Granite Curb shall be sawcut to remove 20" section.
  - 2) 18" x 18" x 6" welded steel wheel guard (one-piece) shall be installed with top flush to existing granite curb in opening as detailed.
  - 3) Wheel Guard shall be set flush to existing curb and filled with Type-S mortar to lock in frame. Top of Mortar Bed inside Wheel Guard shall be shaped to slope three (3) inches from street gutter to back of wheel guard to form the Inlet Apron (3000 psi) required.
  - 4) Wheel Guard edges at granite curb shall be pointed with mortar.
  - 5) Inlet Chamber shall be set tight against backside of wheel guard on compacted crushed stone consistent with Green Trench Inlet Details.
  - 6) Inlet Chamber shall be marked at inlet apron and an 18" notch shall be cut into chamber riser at Inlet Apron. Cut shall be straight and clean.
  - 7) Inlet Chamber shall be set with 6" x 18" notch aligned with Inlet Apron. Inlet Chamber to be held in place by backfilled stone on back-side and void between granite curb and Inlet Chamber filled with Type-S mortar.
  - 8) Wheel Guards to be manufactured from 1/2"x6" A36 Steel. Double welded at each joint.



NOTES

No.	Revision/Issue	Date

Town of  
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Engineering Division  
51 Grove Street  
Arlington, MA 02476

**2020 GREEN  
INFRASTRUCTURE  
IMPROVEMENT PROJECT**

**TRENCH DETAILS**

Project:	#20-09	Sheet:	11 of 11
Drawn By:	WAC		
Scale:	AS NOTED		
Date:	FEBRUARY 2020		